



UNIT



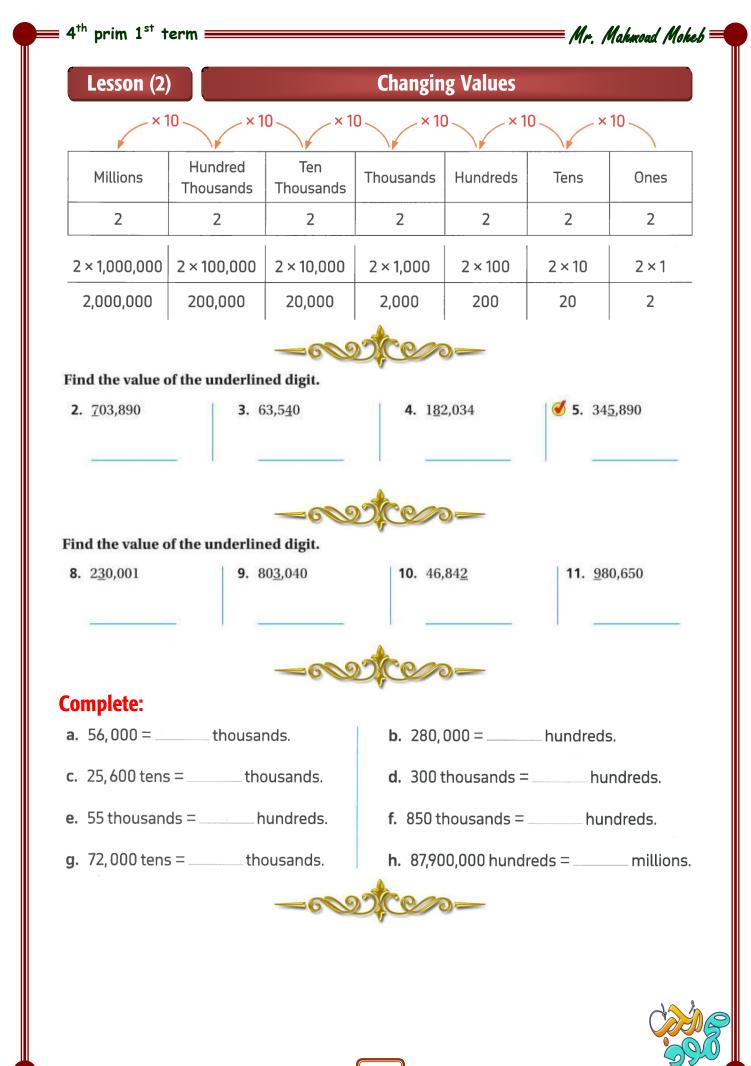
Mr. Mahmoad Mokeb

Theme 1 Number Sense and Operations

Unit 1 Place Value

Credit: frank60 / Shu

	esson (1)			Reall	y Big	Numbe	rs		
	F	PERIO	D ——	F	PERIOD		P	ERIOD -	
MI	LIARDS	MILLIO			USAN			DNES	
	0	н -	0	Н	Т	0	Н	Т	0
1	6 milliard	2 (208 mill		1	9 thousa	6	3	1 318	8
Mat	ch the card	ls that have th	G	with a second se	Z	-			
a. (43,5	09,458			1.		milliard, 103 205 thousa),
b.	403,	590,548			2.		illion, nine d, eight hui		
c. (4,103,	905,484			3.		nree millior housand, f fifty-ei	ourhun	
d. (4,95	50,854			4.	403 m	illion, 590 t	housand	d, 548
eac	i the foll 5,200	owing numt ,005		30,645,2	270 214		720,C)03,2 (00
	600,24	7 ,004		<mark>42,320,</mark> 2	218		<mark>9,0</mark> 4	1 0,00	0
	4,600	,001		<mark>5,234,1</mark>	00		<mark>60,0</mark>	01 <mark>,24</mark>	0
9	,321,40	00,050	1,	, <mark>004,02</mark> 1	,016		4,000,	200,0	000
7	,000,00	00,009	3,	<mark>,010,04</mark> 0	,500		<mark>8,001</mark> ,	023,(800



Homework

Mr. Mahmoad Moheb

Complete the following table:

Numbers	Milliards	N	lillio	าร	The	ousa	nds	(Ones	5
Numbers	0	Н	Т	0	Н	Т	0	Н	Т	0
5 406 548 987										
3 589 021 479										
	5	4	6	3	9	8	7	1	5	9
	1	6	4	7	8	5	2	0	8	2



Complete:

- (1) 5,326,548,987 = billion, million, thousand &
- (2) 2,163,900,800 = billion, million, thousand &
- (3) 4,132,876,514 = billion, million, thousand &
- (4) 7,325,165,273 = billion, million, thousand &
- (5) 5,153,276,542 = billion, million, thousand &
- (6) 5,180,070,506 = billion, million, thousand &
- (7) 6,537,002,054 = billion, million, thousand &







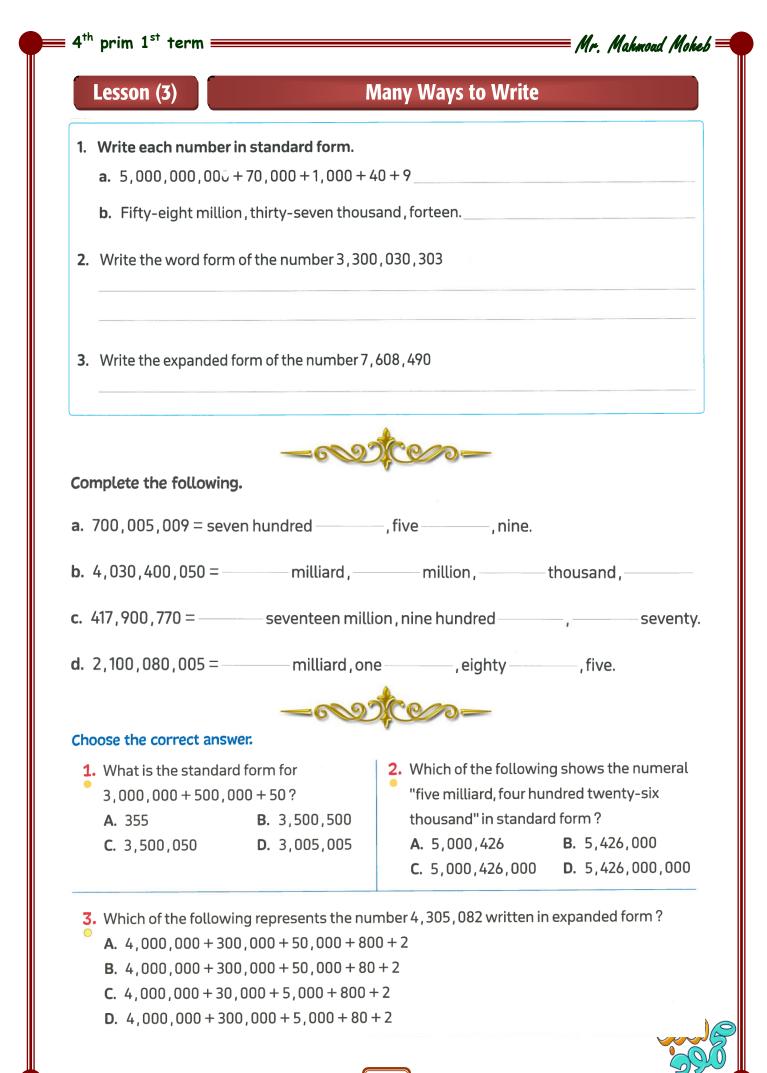


= Mr. Mahmoad Moheb 💳

Write the value and the place value of the red digit:

The number	The value	The place value
4,325,526,412		
8,523,256, <mark>4</mark> 12		
2, 7 32,154,546		
5,1 <mark>2</mark> 4,652,487		
1,541,656,218		
9,148,5 <mark>6</mark> 2,487		
4,562,732,154		





= Mr. Mahmoad Moheb =

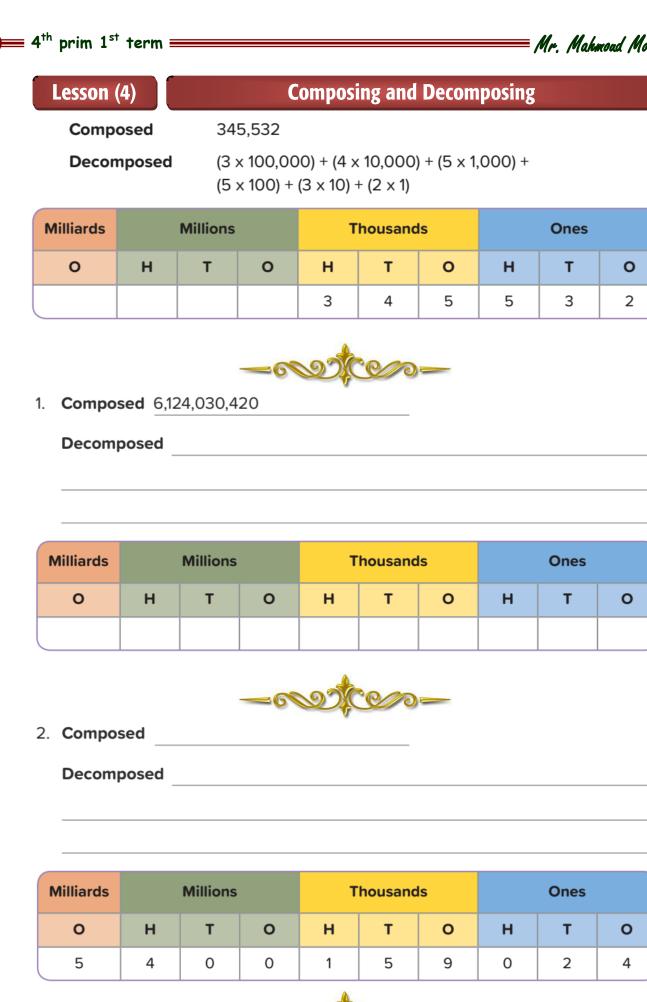
Complete the table:

	Standard Form	Expanded Form
1	565	
2		4000 + 700 + 6
3	2,345,222,197	
4		6,000,000 + 200,000 + 30,000 + 7,000 + 900 + 50 + 8
5	2,305,031	











3. Composed

Decomposed (7 × 1,000,000,000) + (5 × 10,000,000) + (4 × 10,000) + (3 × 1,000) + (5 × 100) + (9 × 1)

Milliards		Millions		т	housand	ls		Ones	
0	н	т	0	н	т	0	н	т	0



Composed :

Decomposed: $[7 \times 10,000] + [8 \times 1,000] + [5 \times 100] + [2 \times 10] + [6 \times 1]$

MILLIARDS	MI	LLIONS		THO	USAND	S	(DNES	
0	Н	Т	0	Н	Т	0	Н	Т	0



Composed :

Decomposed :

MILLIARDS	MI	LIONS		THO	USAND	S	C	DNES	
0	Н	Т	0	Н	Т	0	Н	Т	0
3	2	0	9	5	0	0	7	0	8



Composed:7,052,318,709

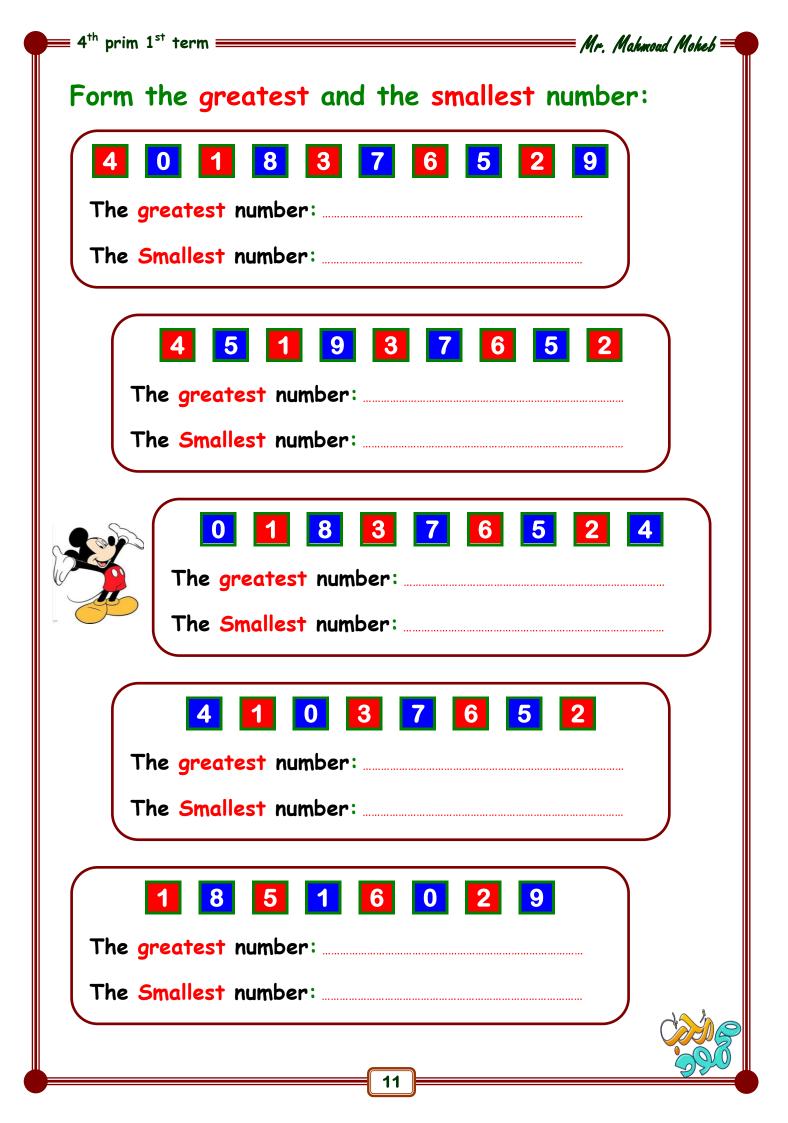
Decomposed :

MILLIARDS	MIL	LIONS		THO	JSAND	S	0	NES	
0	Н	Т	0	Н	Т	0	Н	Т	0





= Mr. Mahmoud Moheb =





Homework

Compare the numbers below and circle the greater number in each row:

23,410	22,999
111,223	101,345
4,890	4,891



Use the digits 3, 5, 7, 8, 8, 1, 6, 2 to make the greatest number you can. Then use the same digits to make the smallest number you can.



What is the value of the following?

- A. 9 in the Tens place?
- B. 3 in the Hundreds place?
- C. 60 Tens?

D. 80 Thousands?





4th prim 1st term Mr. Makmoad Mokeb **Choose the correct answer:** 2. Which of the following shows the numeral 1. What is the standard form for "five milliard, four hundred twenty-six 3,000,000+500,000+50?thousand" in standard form? **A**. 355 **B.** 3,500,500 **A.** 5,000,426 **B.** 5,426,000 **C**. 3,500,050 **D.** 3,005,005 **D.** 5,426,000,000 **C.** 5,000,426,000 3. Which of the following represents the number 4, 305, 082 written in expanded form? **A.** 4,000,000 + 300,000 + 50,000 + 800 + 2 **B**. 4,000,000 + 300,000 + 50,000 + 80 + 2 **C.** 4,000,000 + 30,000 + 5,000 + 800 + 2**D.** 4,000,000 + 300,000 + 5,000 + 80 + 24. Which is the correct way to write the numeral 25, 702 in word form? A. twenty-five, seven hundred two. **B.** twenty-five thousand, seven hundred two. **C.** twenty-five ten thousand, seven hundred two. D. twenty-five thousand, seventy-two. 6. Which is a compose to (7 × 10,000) + 5. Which expression decomposes the numeral 50, 374 in expanded form? $[2 \times 10] + [4 \times 1]?$ **B.** 70,240 **A.** 50,000 + 300 + 70 + 4 **A**. 724 **C.** 7,024 **D.** 70,024 **B.** 50,000 + 3,000 + 70 + 4 **C.** 50,000 + 3,000 + 700 + 4 **D.** 5,000 + 300 + 70 + 47. Which numeral and phrase are ways of writing the number that is composed of 3 ten thousands, 5 hundreds, and 2 ones? Select two correct answers. **C**. 30,502 **B.** 30,520 A. 310,521 **D.** three hundred ten thousand, five hundred twenty one. E. thirty thousand, five hundred two. F. thirty thousand, five hundred twenty.



Decompose the following numerals:

Word form:

Nine million, four hundred forty thousand, two hundred twenty.

Decomposed form:

.....

Word form:

Six milliard, nine hundred million, ten thousand, two hundred.

Decomposed form:

Word form:

Eight million, seventy thousand, two hundred. Decomposed form:

.....

Word form:

Twenty seven hundred.

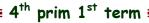
Decomposed form:



.....

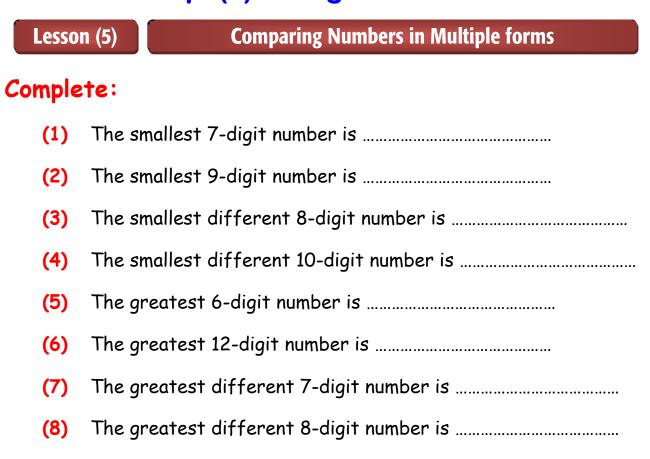


Mr. Mahmoad Moheb =



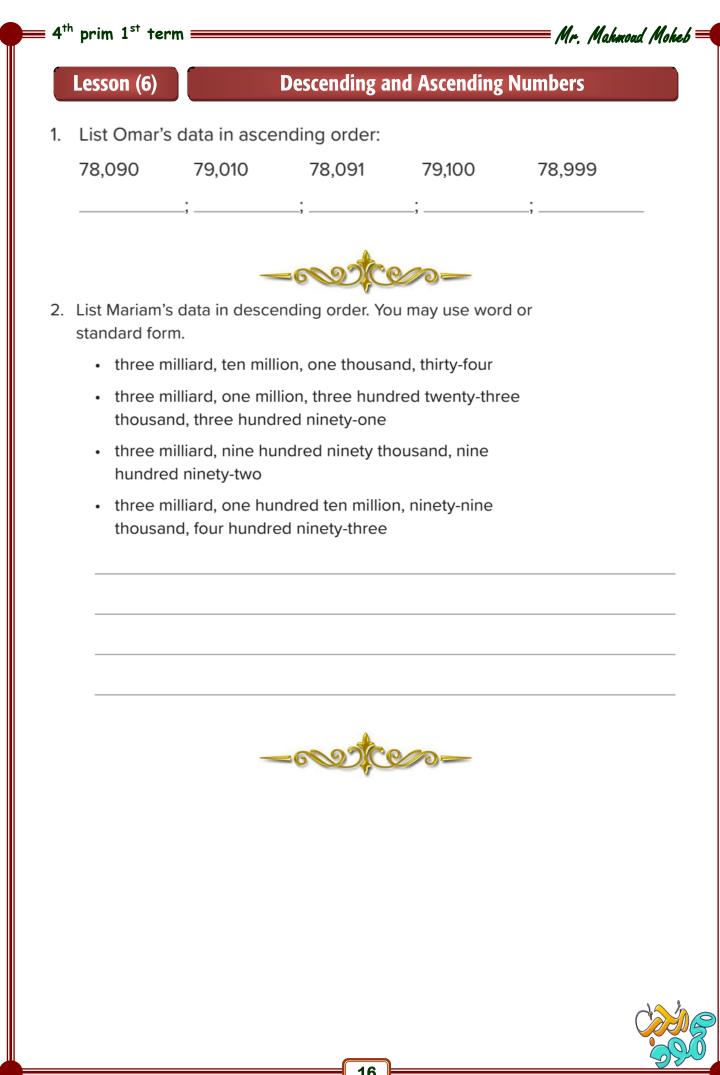
Concept (2): Using the Place Value

Mr. Mahmoad Moheb =



Complete using (<) , (>) or (=):

14,780,064	14,790,064
5,103,492,500	Five milliard, three hundred million, seven hundred fifteen thousand, forty-three
(7×100,000,000) + (4×10,000,000) + (9×10,000) + (8×10) + (1×10)	70,000 + 9,000 + 600 + 40 + 3
8,040,761,903	8,000,000,000 + 400,000,000 + 700,000 + 60,000 + 1,000 + 900 + 3



3. List the numbers in ascending order. Use the form in which they are given.

Mr. Makmoad Mokeb =

- four milliard, six hundred thousand, four
- 461,014
- four milliard six hundred thousand forty
- (4 × 1,000,000,000) + (4 × 100,000) + (6 × 10)
- 6,400,042



Write the numbers in an ascending order:

a. 7,122,890 , 700,122,089 , 70,122,098 , 7,120,980	
The order is :,	2
b. 3,452,805 , 3,542,805 , 542,905 , 1,000,000,000	
The order is :,,,	,
c. 430,000,459 , 43,000,549 , 403,000,456 , 430,549,000	
The order is :,,,	,
d. 2,000,751,240 , 2,100,101,240 , 2,010,010,860 , 299,782,56	51
The order is :,,,	_ ,
	Ċ

Lesson (7)	Rounding Rules	
Rounding means repl	•	
by another simpler number Round each of the following [
-	1	
126,237 ≅		≅
33,500 ≅	. 19,254	≅
821,799 ≅	49,500	≅
2,231,274 ≅	233,695	≅
-602	-	
] Round each of the following	to the nearest	10,000:
15,000 ≅	52,600	≅
78,000 ≅	92,000	≅
456,450 ≅	69,224	≅
45,274 ≅	. 88,695	≅
-602	ten-	
] Round each of the following	to the nearest	100,000:
250,000 ≅	275,600	≅
878,000 ≅	990,000	≅
456,450 ≅	469,224	≅
645,274 ≅	988,695	≅
	tee	



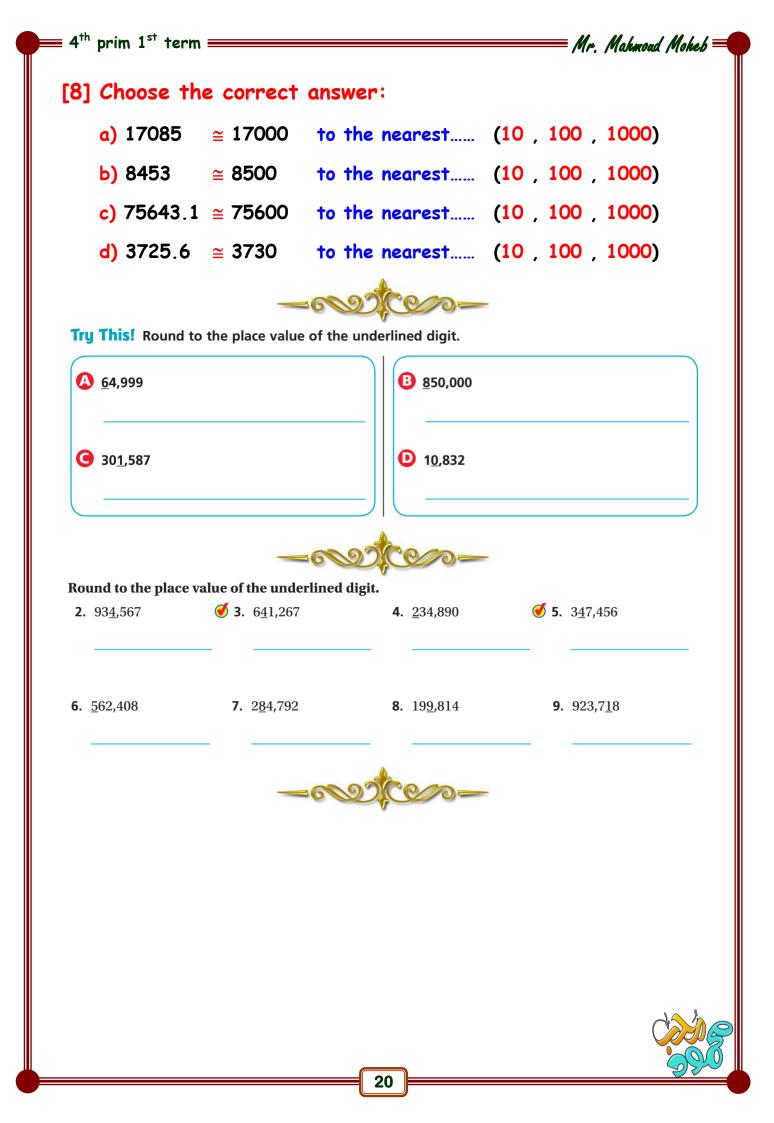
3,250,000	≅
7,878,000	≅
10,456,450	≅
65,645,274	≅
23,275,600	≅
4,990,000	≅
45,469,224	≅
123,988,695	≅
-	-aster-

[5] Round each of the following to the nearest 1,000,000,000:

2,323,250,000	≅
8,247,878,000	≅
4,010,456,450	≅
5,665,645,274	≅
6,223,275,600	≅
7,504,990,000	≅
6,045,469,224	≅
2,123,988,695	≅
	-essign



= Mr. Mahmoad Moheb ==



_____ Mr. Mahmoud Moheb =

PRACTICE

Follow the directions in each problem to round each number to the given place. Use the midpoint strategy or the Rounding Rule strategy.

1. A plane's altitude increased by 2,721 meters. Round this number to the nearest Thousand.

2. A runner ran 1,537 meters but describes the distance he ran with a rounded number. Round 1,537 to the nearest Hundred.

3. A record number of 23,386 ants live in colony A. Round this number to the nearest Ten Thousand.







Homework

Round the numbers below to the Thousands place.

- **1.** 9,621 ≈
- **2.** 42,502 ≈
- **3.** 3824,157 ≈

Round the numbers below to the Hundreds place.

- **4.** 410,671 ≈
- **5.** 423,502 ≈
- **6.** 1,632,542 ≈

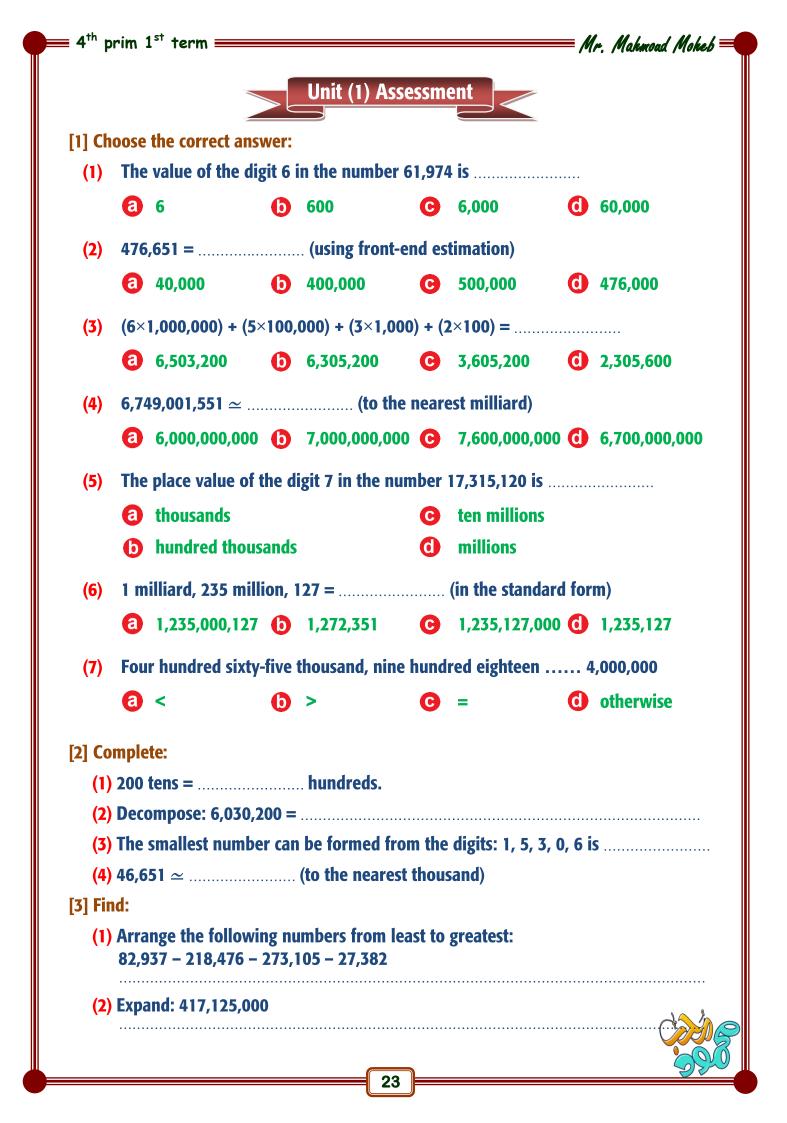
Use front-end estimation for the following numbers:

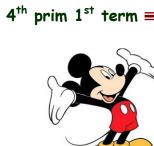
- **2.** 86,433,920
- **3.** 6,627,513,202
- One hundred sixty-three million, four hundred thirty thousand, eight hundred two





= Mr. Mahmoad Moheb =







UNIT

2

Theme 1 Number Sense and Operations

Unit 2 Addition and Subtraction Subtraction



Lesson (1)

Properties of Addition

Mr. Mahmoad Mokeb

Additive Identity Property Solve the following problems.

2,345 + 0

0 + 12,567,109



Commutative Property Solve the following problems.

5 + 7 + 8 + 3	8 + 7 + 3 + 5	7 + 5 + 8 + 3	3 + 7 + 8 + 5



Associative Property Solve the following problems. Remember to solve what is in the parentheses first.

(10 + 4) + 20 + 17	10 + (4 + 20) + 17	10 + 4 + (20 + 17)







1. Select the *best* answer to correctly complete the statement.

Additive Identity

Associative

Commutative

Mr. Makmoad Mokeb

4 + 6 = 6 + 4 is true because of the _ Property of Addition.



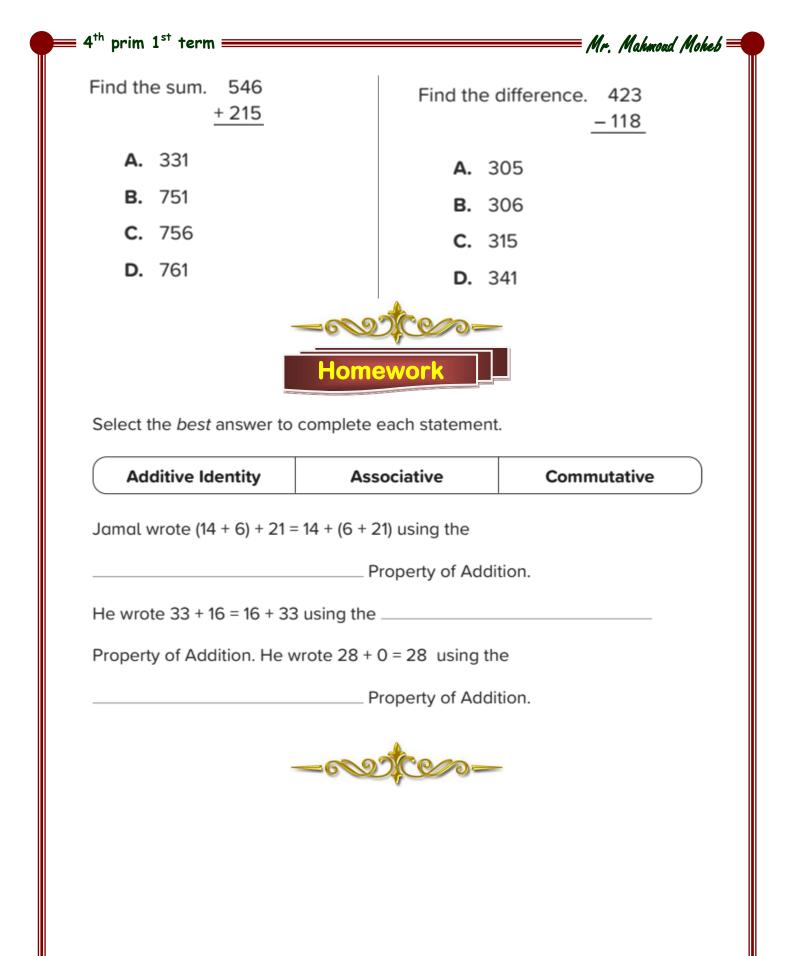
- 2. Which of these statements is true regarding the sum of 16 + 0?
 - A. 16 + 0 = 16 because any number added to 0 will equal that number.
 - **B.** 16 + 0 = 0 because any number added to 0 will equal zero.
 - C. 16 + 0 = 1 + 6 because the addends can be grouped in any way.
 - D. 16 + 0 = 6 + 1 because the addends can be combined in any order.



- **3.** Jabari writes 12 (8 + 1) = (12 8) + 1. Is the statement true?
 - A. Yes, because the Associative Property applies to subtraction.
 - B. Yes, because the Commutative Property applies to subtraction.
 - **C.** No, because the Associative Property does not apply to subtraction.
 - D. No, because the Commutative Property does not apply to subtraction.









A student writes the statement 87 - 52 = 52 - 87. Why is this statement incorrect?

- A. The Associative Property applies to addition but not subtraction.
- **B.** The Commutative Property applies to addition but not subtraction.
- **C.** The Associative Property applies to subtraction but not addition.
- D. The Commutative Property applies to subtraction but not addition.



Obaid found that 29,828 + 41,309 = 71,137. Which estimate could he use to check if his answer is reasonable?

- **A.** 30,000 + 50,000 = 80,000
- **B.** 20,000 + 50,000 = 70,000
- **C.** 30,000 + 40,000 = 70,000
- **D.** 20,000 + 40,000 = 60,000







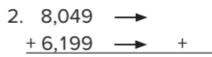


Mr. Makmoad Mokeb =

	SSC										Ad	din	Ig V	vitl	h R	egi	'OU	pir	Ig						
Find a	3	7	8	5	4	2	1 4	b	+	4 3	8 1	9 0	1 2	2 3	4	3 5	С	+	6	6 7	5 3	8 4	8 5	7 3	6 8
					0 7			e			0 8											0 4			

Estimate and Solve Work with your partner to estimate the sums and then solve the problems.

1. 579 → + 62 → +





A colony of ants is on a march through the jungle looking for food. On this march they made 2 bridges. The first bridge is composed of 142 ants. The second bridge is composed of 165 ants. How many ants were needed for both bridges? Show your work. Then, explain how you know your answer is reasonable.



Estimate

Exact



	Species	Total	Round Each Number to the Nearest Thousand
1.	Black Garden Ants	58,712	
2.	Pavement Ants	81,475	
3.	Pharaoh Ants	42,358	

-000000-

4. How many ants would you have if you combined the Pharaoh Ants and the Pavement Ants? Use your rounded numbers from the table to estimate, and then find the exact answer.



5. What is the total amount of ants? Use your rounded numbers from the table to estimate, and then find the exact answer.



Abeer and Ehab are traveling from Aswan to Alexandria. They will travel 514 km on the first day to Asyut. They will travel 597 km from Asyut to Alexandria on the second day. How many kilometers will they travel in all?





Mr. Mahmoad Mokeb

A Saharan Silver ant is the fastest ant on the planet. It can move about 855 mm a second. If this ant could maintain this speed for 2 seconds, how far would it go?



Lesson (3)

Subtraction with Regrouping

A trap jaw ant wanted to cross a river that was 3,548 cm across. The ant had already swum 1,672 cm. How much farther does the ant have to go?

-092100/0-

A fire ant colony 255,000 ants. A *Gigantiops destructor* ant colony has 6,200. What is the difference between the size of the two colonies?



Mr. Makmoad Mokeb =

Two colonies of fire ants were stuck in a flood and made floating rafts to survive. The first colony had approximately 1,267 ants and the second had 3,452 ants. How many more ants were in the second colony?



Mr. Makmoad Mokeb



Using 10s Follow your teacher's directions to mentally solve the problems.

- 1. 3+7
- 2. 3 + 5 + 7
- 3. 7+6+3
- 4. 9+1
- 5. 1+7+9
- 6. 9+6+1
- 7. 7+7+3+3
- 8. 9 + 9 + 1 + 1



It takes 15,422,140 ants to move a log that weighs 77 kg. It takes approximately 6,350,300 ants to move a rock that weighs 32 kg. How many more ants does it take to move the log than the rock?

Use the subtraction algorithm to solve the problems. Then, round each number to the nearest Thousand to check the reasonableness of your answers.

- 6,625

 -4,417

 2. 23,640

 -14,635

 3. 25,884

 -18,875
- 4. 1,816 _ 1,066





Mr. Makmoad Mokeb =

Concept (2): Solving Multistep Problems

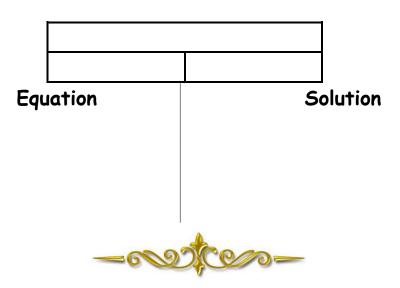
Lesson (4)

Bar Models, Variables, and Story Problems

Mr. Mahmoad Moheb

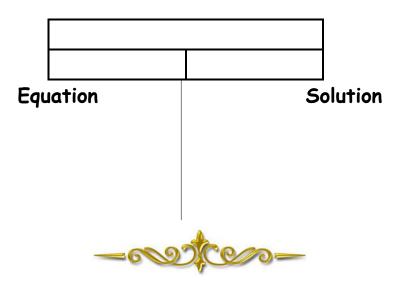
There are 5,328 ants in the colony. In the colony, 2,164 ants are females and the rest are males. How many male ants are in the colony?

Bar Model:



There are 20,000 ants in the colony. In the colony, 12,000 are females and the rest are males. How many male ants are in the colony?

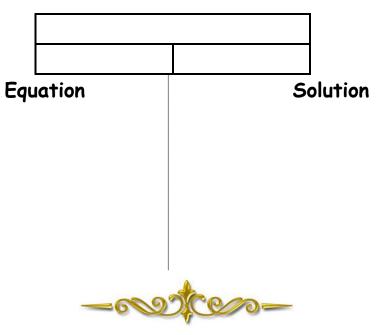
Bar Model:





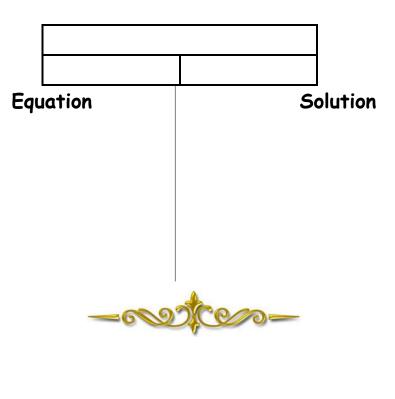
In colony A there are 1,200 ants. Some ants are out foraging for food and supplies, and 700 ants are taking out the colony's trash. How many ants are foraging for food and supplies?

Bar Model:



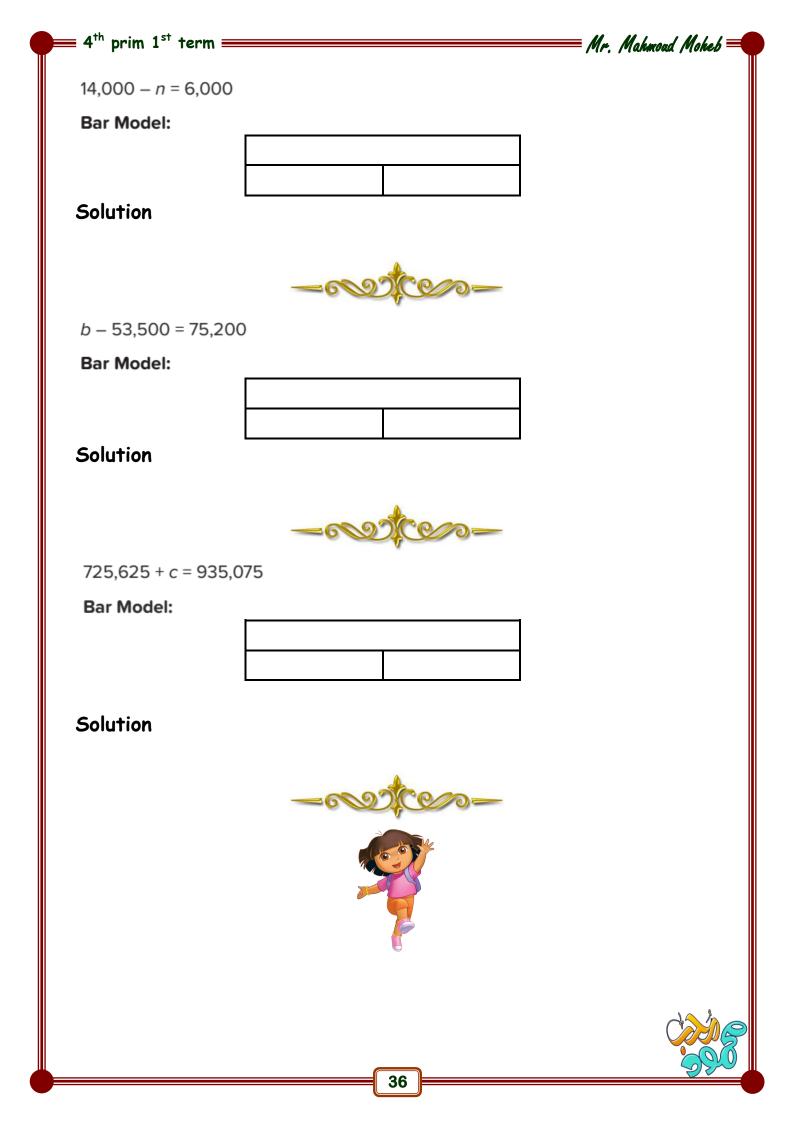
There are 12,000 species of ants. Of these 12,000 species, 2,500 species live in Africa and the rest live in other parts of the world. How many species do not live in Africa?

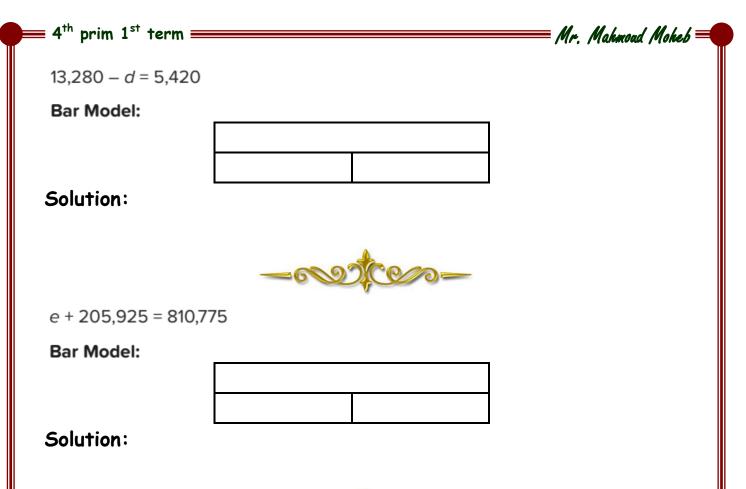
Bar Model:





Mr. Makmoad Mokeb =



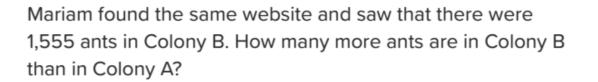


-1000 °C/0=

Omar found a website created to study ant colonies. He saw that there were 1,025 ants in Colony A on Wednesday. On Friday, 101 ants leave the colony. How many ants are left in Colony A?









Lesson (5) Solving Multistep Story Problems with Addition and Subtraction

The Great Pyramid had 59,000 visitors in January, 27,525 visitors in February, and 32,975 visitors in March. They expect to have 150,000 visitors by the end of April. How many visitors need to show up in April to reach this count?



New Valley has a population of 256,088. If Matrouh has a population of 429,999 and South Sinai has a population of 108,951, how many more people do Matrouh and South Sinai have combined than New Valley?



Mr. Makmoad Mokeb =

The Nile River is approximately 6,650 kilometers long. Kareem and his family travel the Nile River from one end to the other end. If they travel 1,075 kilometers in January, then 1,120 kilometers in February, and then 1,325 kilometers in March, how many more kilometers do they still need to travel to reach the other end?



Aswan has a population of 1,575,914. If Luxor has a population of 1,333,309 and Red Sea has a population of 383,796, how many more people do Luxor and Red Sea have combined than Aswan?



Hazem and Menna are monitoring ant colonies on the website. Hazem has been monitoring an ant colony with 132,890 ants. Menna has been monitoring an ant colony with 57,024 ants and another colony with 72,999 ants. Who has been monitoring more ants? How many more?





Mr. Makmoad Mokeb

Homework

A coffee pot held 1,425 milliliters of coffee. Rashida filled her mug with 730 milliliters of coffee from the pot. Then she poured 460 milliliters for her friend. How can you find out how much coffee was left in the pot? Select *two* correct answers.

- A. Add the 730 milliliters Rashida poured in her mug to the 1,425 total milliliters that were in the coffee pot to begin with. Then subtract the 460 milliliters Rashida poured in her friend's mug.
- B. Subtract the 730 milliliters Rashida poured in her mug from the 1,425 milliliters that were in the coffee pot to begin with. Then subtract the 460 milliliters Rashida poured in her friend's mug.
- **C.** Add the 460 milliliters Rashida poured in her friend's mug to the 1,425 total milliliters that were in the coffee pot to begin with. Then subtract the 730 milliliters Rashida poured in her mug.
- D. Subtract the 460 milliliters Rashida poured in her friend's mug from the 1,425 total milliliters that were in the coffee pot to begin with. Then subtract the 730 milliliters Rashida poured in her mug.



What is the value of x? 111 + x = 481

- **A.** 260
- **B.** 370
- **C.** 471
- **D.** 592





Mr. Makmoad Mokeb

A ship entered port with 611 tonnes of cargo. It picked up a 25-tonne shipment of fresh fruit and a 149-tonne shipment of electronics before it left port. How much cargo did the ship leave port with?

- A. 437 tonnes
- B. 636 tonnes
- C. 760 tonnes
- D. 785 tonnes

-6000

A water truck was filled with 4,000 liters of water. It delivered 1,250 liters to its first client. It delivered 620 liters to its second client. It delivered 2,120 liters to its last client. How much water was left in the truck?

- A. 10 liters
- B. 50 liters
- C. 2,130 liters
- D. 7,990 liters



A seamstress had a 21-meter bolt of cloth. She used some of the cloth to make a dress and had 15 meters left over. Let *c* represent the amount of cloth. Which equation represents this problem?

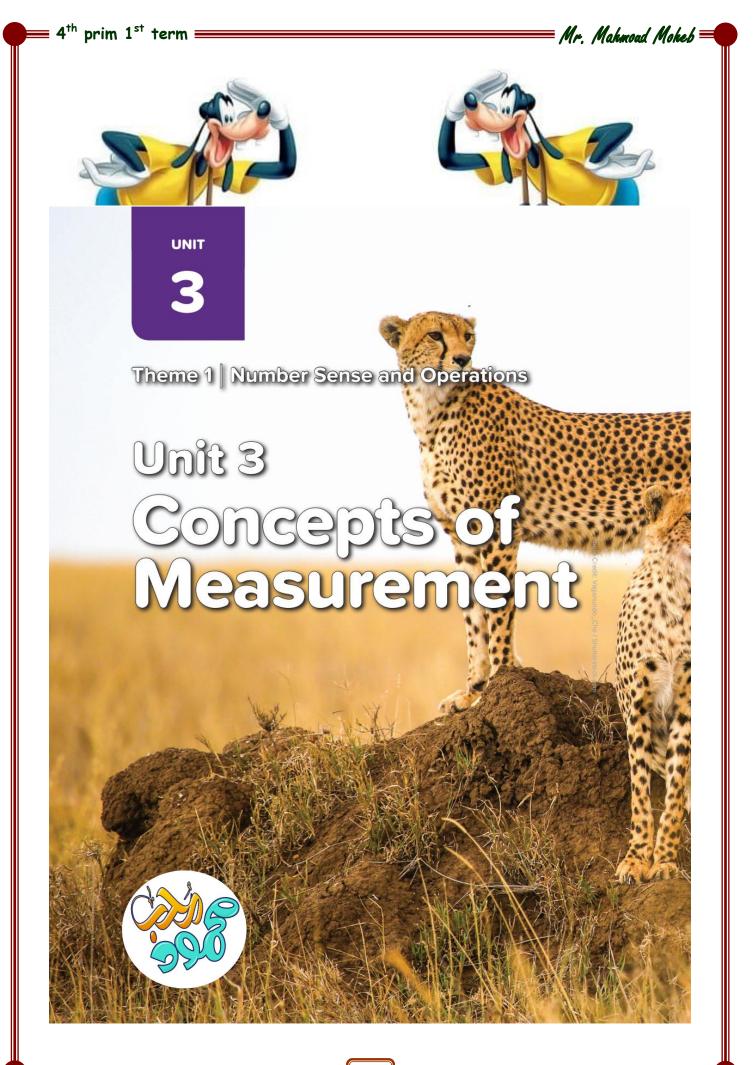
- **A.** 15 c = 21
- **B.** 21 *c* = 15
- **C.** 15 + *c* = 21
- **D.** 21 + c = 15





Mr. Makmoad Mokeb =

[1] C h	oose	the correct an	swer:					
(1)	A bakery sold 1,232 loaves in one day, if it sold 876 loaves in the morning. How many loaves did it sell at the evening?							
	a	356	D	1,588	С	520	d	2,108
(2)	Which estimation is reasonable for 816 – 257 ?							
	a	810 - 260 = 5	550		C	800 - 250 = 5	550	
	D	820 - 260 = 5	560		d	820 - 250 =	570	
(3)	The	additive ident	tity ele	ment is				
	a	0	D	1	С	2	đ	3
(4)	Ahmed bought 6 cookies, he ate 4 pieces and 12 have left. If A refers to the tota number of cookies, then which of the following is true?							
	a	A = 4 + 12	D	12 - A = 4	C	A + 12 = 4	đ	A + 4 = 12
(5)	34 -	+ 56 = 56 + 34	is calle	ed	pro	operty		
	a	commutative			C	additive-iden	ntity	
	D	associative			d	otherwise		
[2] Co	mple	te:						
-		- 1,590 = 3,41	0, then	H =				
(2)	3,15	6 + 5,667 =						
(3)	102,	007 – 456 =						
(4)	6,54	2 =+ 6	5,542 a	nd is called				property.
(5)	In th	e opposite ba	r mode	el, Y =				7,620
[3] Fir	nd:							Y 4,310
(1)		has 1,200 min left minutes in			her mo	bile, she used	700 n	ninutes. Find
(2)		re are 142 ant in the two br		-	d 165 a	ints in the 2 nd l	bridge	e. How many





Concept (1): Metric Measurements

	Lesson (1) Measuring the Length					
	easurement ngth.	Review Circle	the best unit to m	ieasure each		
1.	Height of a	student				
	Kilometer	Meter	Centimeter	Millimeter		
2.	Distance b	etween home a	and school			
	Kilometer	Meter	Centimeter	Millimeter		
3.	Length of t	he Nile River				
	Kilometer	Meter	Centimeter	Millimeter		
4.	Length of a	an ant				
	Kilometer	Meter	Centimeter	Millimeter		
5.	Distance fr	om Cairo to Ale	exandria			
	Kilometer	Meter	Centimeter	Millimeter		
		-61	entre second			
		ks to answer the measured in ea		ons. Think of things		
6.			is best measured	in kilometers		
		-0	9)(CC)-			

3

Metric Units View and discuss the Metric Conversion chart with your Shoulder Partner.

Kilo-	Hecto-	Deca-	Unit	Deci-	Centi-	Milli-
1,000 units	100 units	10 units	1 unit	1/10 unit	1/100 unit	1/1,000 unit
Kilo	Hecto		× 10 Unit	× 10 Deci	× 10 Centi	× 10 Milli
	к	ilometer			Meter	
1					1,000	
2		3				

40,000





Mr. Mahmoad Moheb ==

	Meter	Centimeter
4	1	
5		300
6	10	

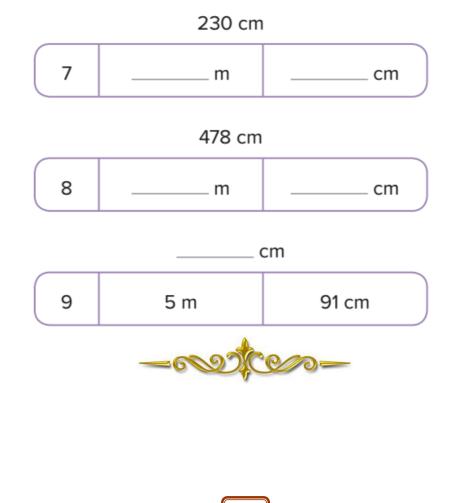
= Mr. Mahmoad Mokeb =



Look at the following example:



Convert the following lengths into the given units in the bar models. Use the previous example to help you.



4^{th} prim 1^{st} term Mr. Mahmond Moheb = Convert the following. . 1. 4 m 18 cm = ______ cm . 2. 18 m 14 cm = ______ cm . 3. 8 km 14 m = ______ m . 4. 27 km 55 m = ______ cm .

5. If one black ant can walk 250 meters in 1 hour, how many hours will it take to walk 1 kilometer?



 If the same black ant walked for 10 hours, how far would it go? Express your answer in kilometers and meters.



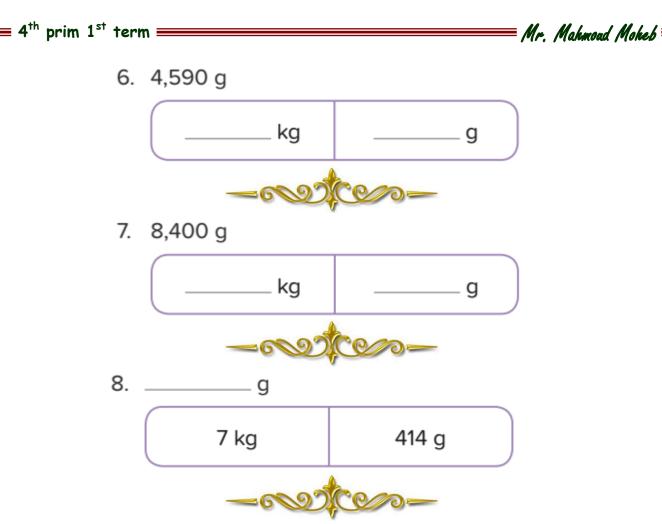
Lesson (2)

Work with a partner to complete the conversions. Use the previous example to help you.

- 1. 3 kg = _____ g
- 2. 8 kg = _____ g
- 3. _____ kg = 5,000 g
- 4. 4 kg = _____ g
- 5. _____ kg = 30,000 g







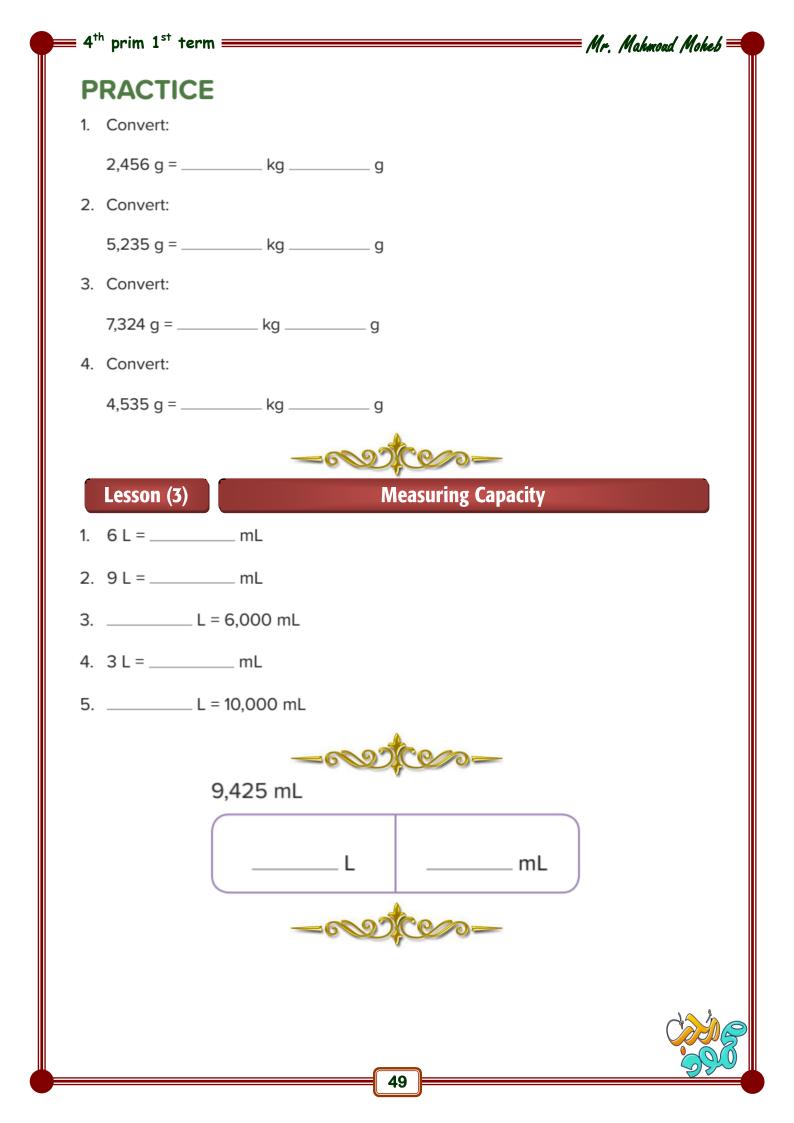
A colony of black ants is estimated to weigh 3,493 grams.
 Rewrite that number using kilograms and grams.

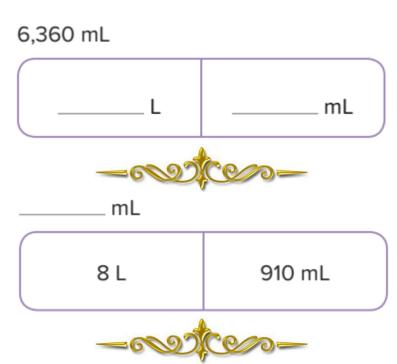


A different ant colony is estimated to weigh 14 kilograms and 89 grams. Rewrite that weight in grams.









A car is filled with 45 liters of petrol. How many milliliters would that be?



A family drank 1 liter 500 milliliters of orange juice at breakfast. If there were 3 liters of orange juice before breakfast, how much orange juice is left?



A car was filled with 20 liters 500 milliliters of petrol. At the end of the day, there were 15 liters 250 milliliters left in the tank. How much petrol was used?





Mr. Mahmoad Moheb

4^{th} prim 1^{st} term =

Doha's fish tank contains 5 liters 245 milliliters of water. If the tank can hold 10 liters of water, how much more water does she need to fill the tank?

10. Use the recipe that follows to answer the questions.

Sobia Ingredients:

- 100 g raw short grain rice
- 500 mL of water
- 750 mL cold milk
- 100 g caster sugar
- 5 mL vanilla
- 500 mL coconut milk

Which ingredients are measured by mass?

Which ingredients are measured by capacity?

What is the total amount of liquid ingredients in the drink in milliliters? In liters?





Mr. Mahmoad Moheb =

Homework

Convert to centimeters:

- **1.** 6 m =
- 2. 20 m 10 cm =



Convert to meters:

- 3. 23 km =
- 4. 800 km 50 m =

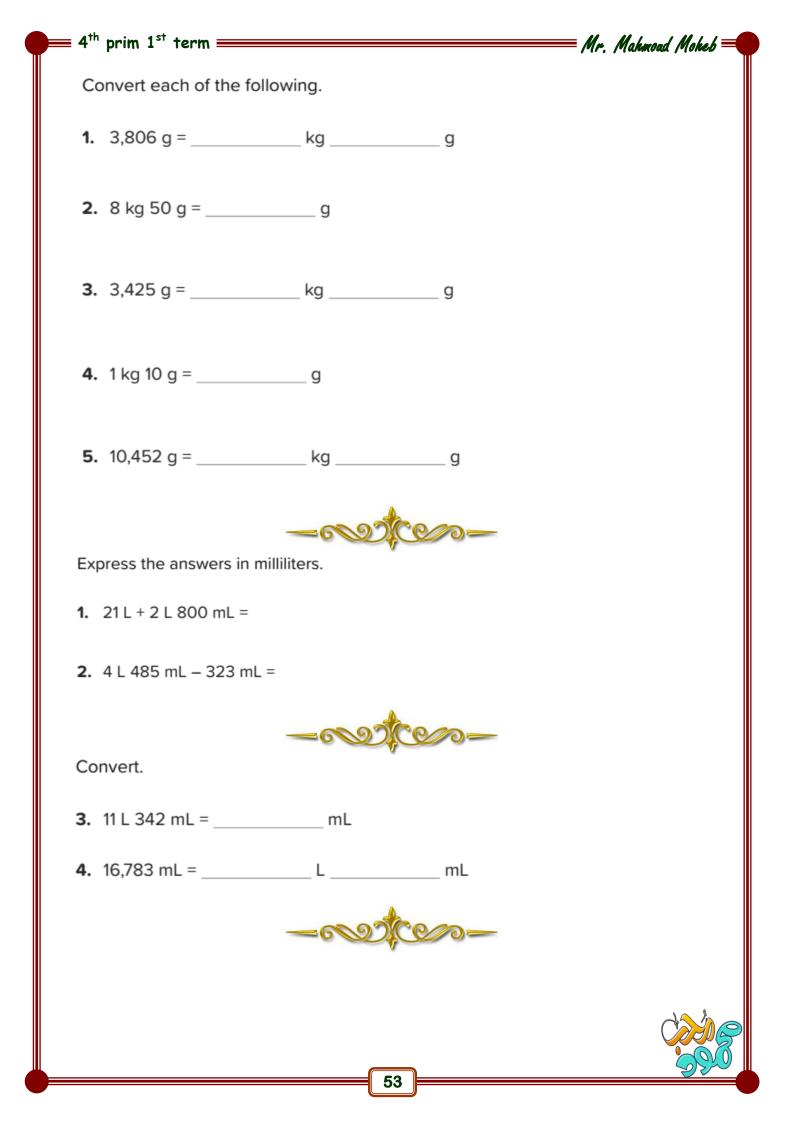
-00000-

5. A worker ant walked 3,500 meters on Monday to look for food and 2,450 meters on Tuesday to look for food. How far did the ant travel on Monday and Tuesday combined? Express your answer in meters, and then convert to a combination of kilometers and meters.





= Mr. Mahmoud Moheb =



Concept (2): Time and Scaled Measurement

Measuring Time

Week	Day	
1	7	
2		
3		
4		
5		
6		
7		
8		
9		
10		

Day	Hour
1	24
2	
3	
4	
5	
6	
7	
8	
9	
10	

Hour	Minute
1	60
2	
3	
4	
5	
6	
7	
8	
9	
10	

Minute	Second
1	60
2	
3	
4	
5	
6	
7	
8	
9	
10	

Mr. Makmoad Mokeb =

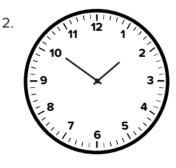
Solve the conversion problems using the ratio tables above.

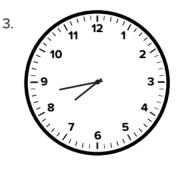
- 5. 10 hours 30 minutes = _____ minutes
- 6. 6 minutes 15 seconds = _____ seconds
- 7. 4 days 20 hours = _____ hours



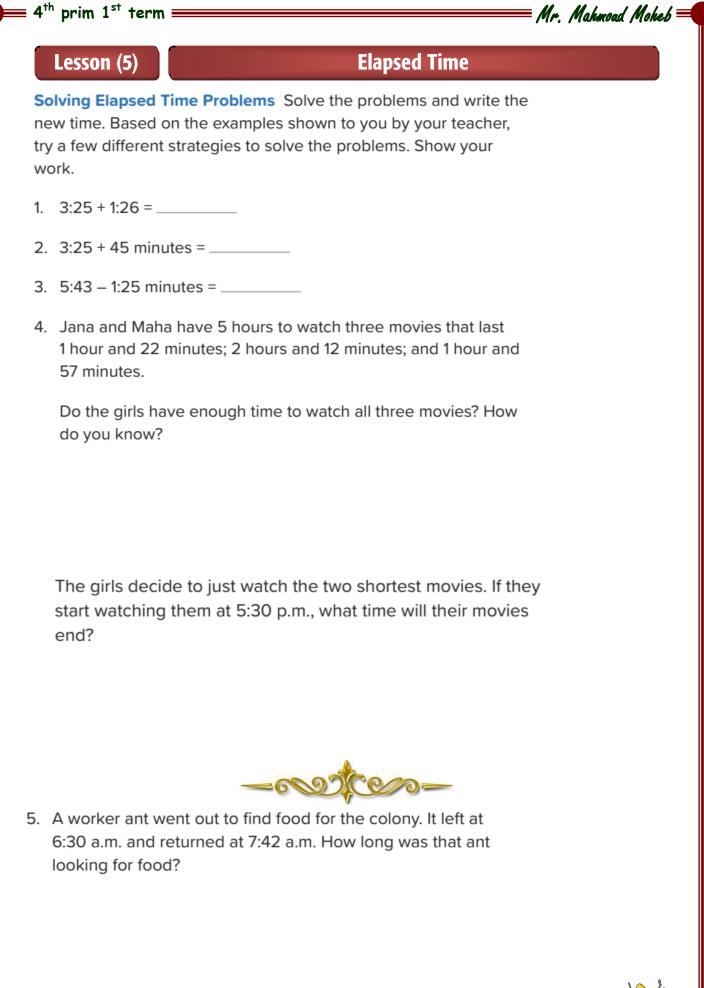
Write the digital time that is shown on each analog clock.













Concept (3): Measurement All Around

Lesson (6)

Measuring the World around Me

Mr. Makmoad Mokeb

 The potatoes Aya bought weighed 2 kilograms 920 grams. Her onions weighed 1,075 grams less than the potatoes. How much did the potatoes and onions weigh together?



2. A pharaoh ant grows from egg to adult in 45 days. A carpenter ant grows from egg to adult in 12 weeks. Which species takes longer to grow from egg to adult? How much longer?



3. A fish tank with a capacity of 100 liters is filled with 20,000 milliliters of water. How many more liters of water are needed to fill it up completely?



 Zeina purchased 8 kilograms of sugar, 10 kilograms of flour, 500 grams of cocoa, 225 grams of pecans, and 275 grams of coconut. What is the total mass of her groceries in kilograms?



Mr. Emad bought four 2-liter bottles of soda for the Primary 4 picnic. If there were 2 liters and 829 milliliters of soda remaining at the end of the party, how many milliliters of soda did the students drink?

Worker ants take power naps totaling up to 250 minutes a day. A queen ant may sleep up to 9 hours a day. Which ant sleeps longer and by how many minutes?



Ahmed has a 12-meter-long piece of wood. He wants to cut it into 3 equal lengths. How long should each cut piece be in meters? How long will each of these pieces be in centimeters?

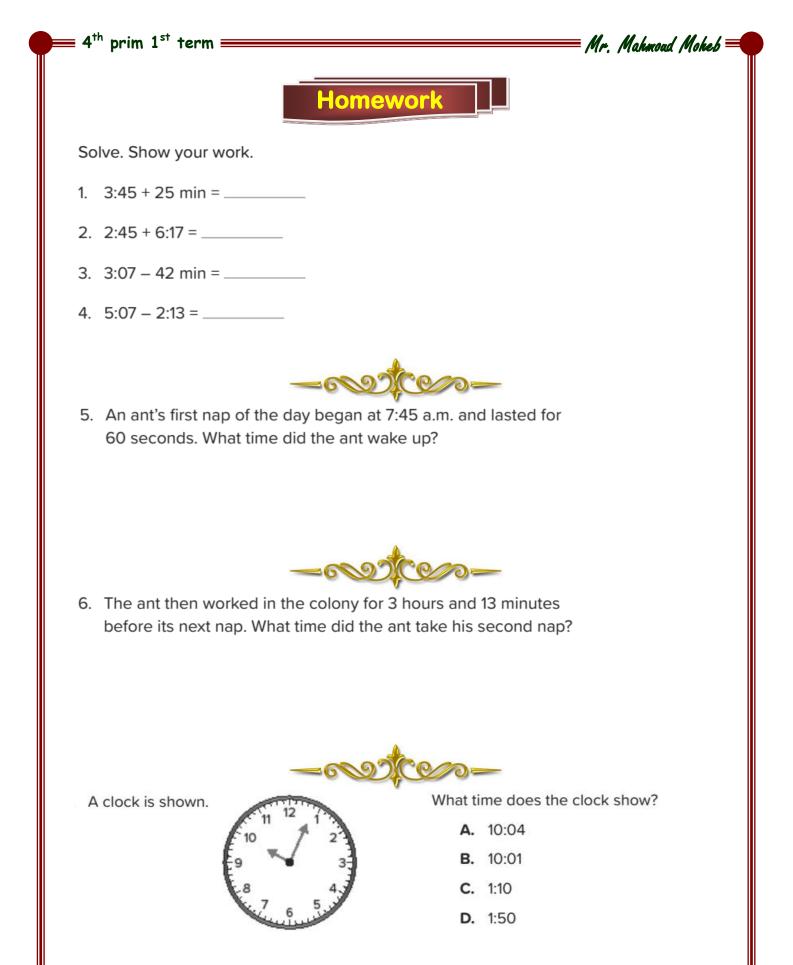
Ayman is a runner. While Ayman is in training, he needs to drink 500 milliliters of water 4 times per day. How many liters of water will that be for 1 week?

-007

Ehab is a weightlifter. He has a mass of 100 kilograms. His aim is to gain 500 grams per week. If he does that for 5 weeks, what will his mass be at the end?



Mr. Makmoad Mokeb





Bast's school day is 5 hours long. How can she find how long the school day is in minutes?

Mr. Mahmoad Mokeb

- A. multiply 5 by 60
- B. add 5 and 60
- C. multiply 5 by 24
- D. add 5 and 24



Bakari is going on a trip for 2 full days. How could he figure out how many hours he will be away?

- A. add 2 and 24
- B. multiply 2 by 24
- C. add 2 and 60
- D. multiply 2 by 60

-67971

Taher grew 10 centimeters in 1 year. He is now 1 meter 6 centimeters tall. How many centimeters tall was Taher 1 year ago?



An ant from Colony A walked 2 kilometers in a day. An ant from Colony B walked 3,000 meters in a day. Which ant walked the farthest and how much farther in kilometers did it walk?



Ali's cat weighs 7 kilograms and his dog weighs 17 kilograms. When Ali took them to the vet, he learned that his cat gained 450 grams and his dog gained 120 grams. How much do his two pets weigh in all now?

Rania is measuring two ant lines. Colony A's ant line is 30 centimeters long, and Colony B's ant line is 500 millimeters long. How many centimeters long are the two ant lines together?



Mr. Makmoad Mokeb

Amany is a swimmer. She spends half an hour every day swimming. How many minutes in total does she swim for during a 5-day period?



Sara travelled 9 days continuously. She travelled 5,000 meters each day. How many kilometers did she walk in all?

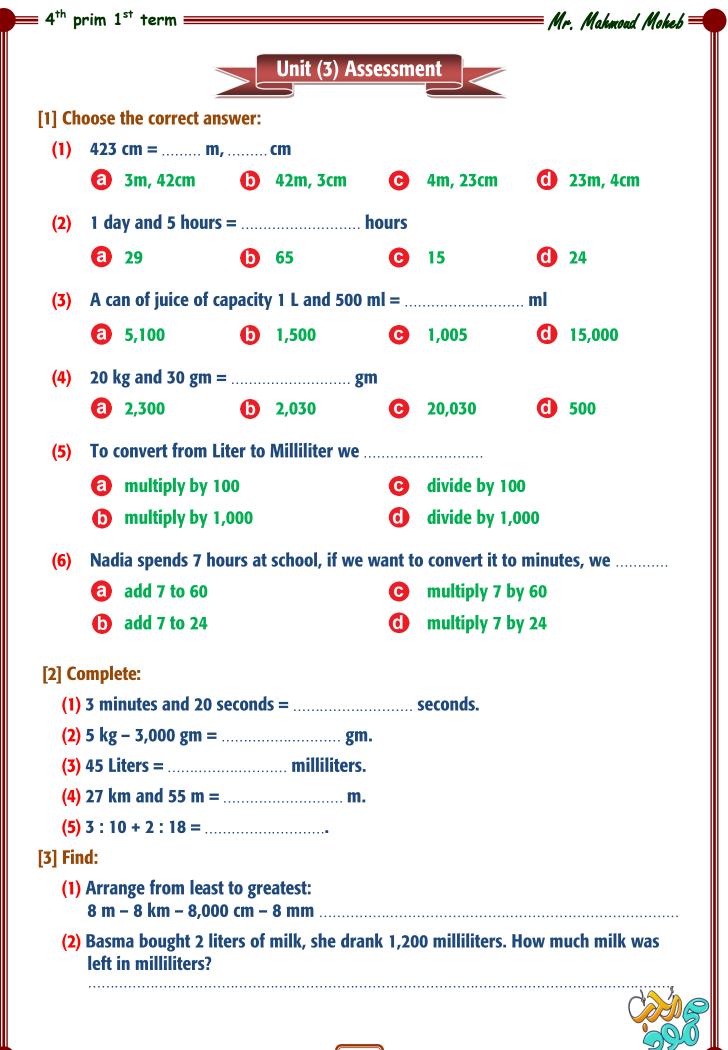


Ants walk about 5,000 meters each day. How many kilometers do ants walk in 6 days?

=<u>6</u>01

Samira is studying for an upcoming math test. If she studies for 30 minutes a day, how many hours will she have spent studying in 8 days?









UNIT

4

Theme 1 | Number Sense and Operations

Unit 4 Area and Perimeter



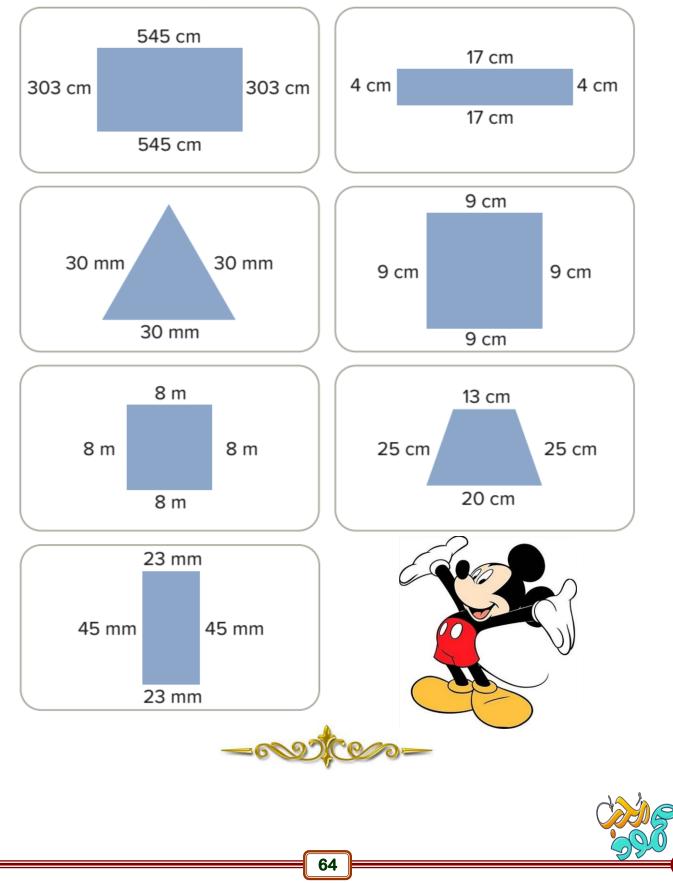
Concept (1): Explore Area and Perimeter

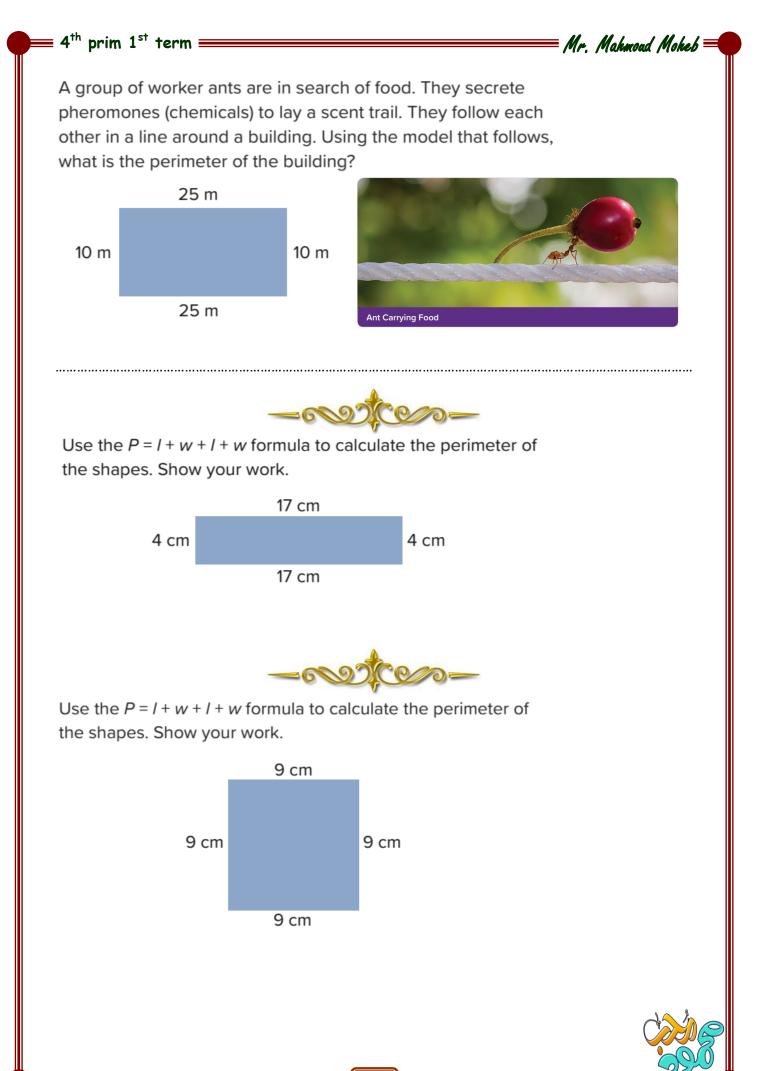
Lesson (1)

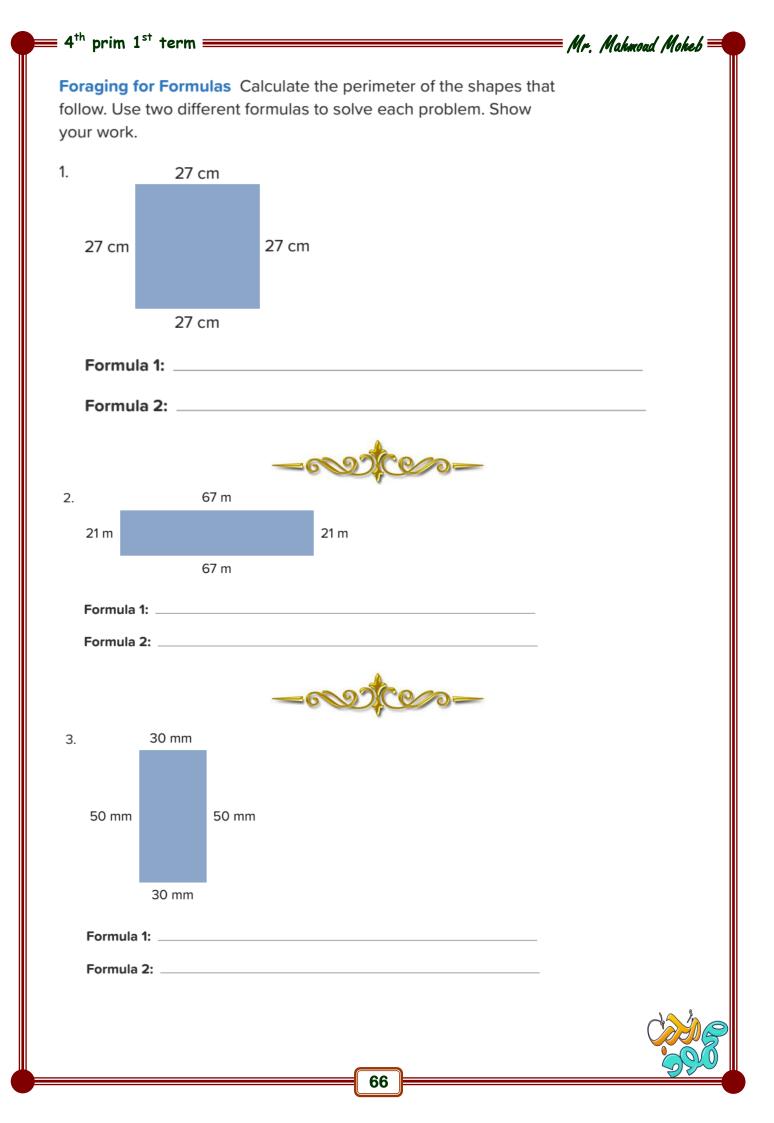
Calculating the Perimeter

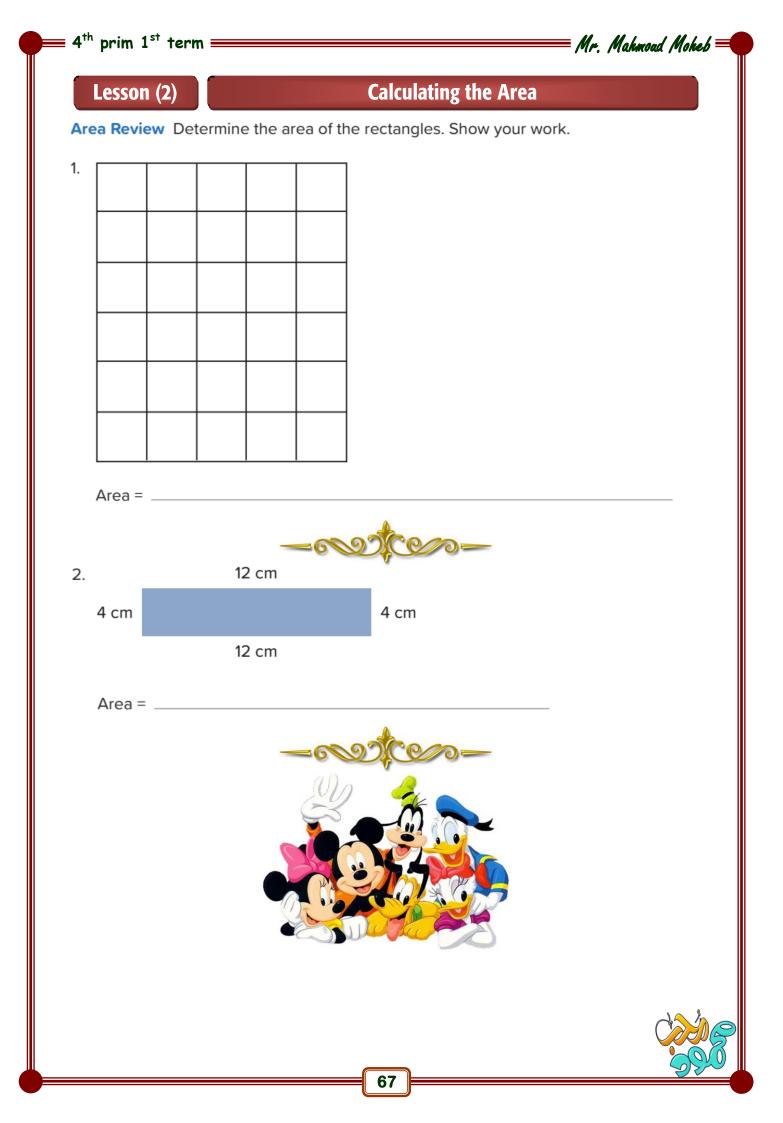
Mr. Mahmoad Mokeb

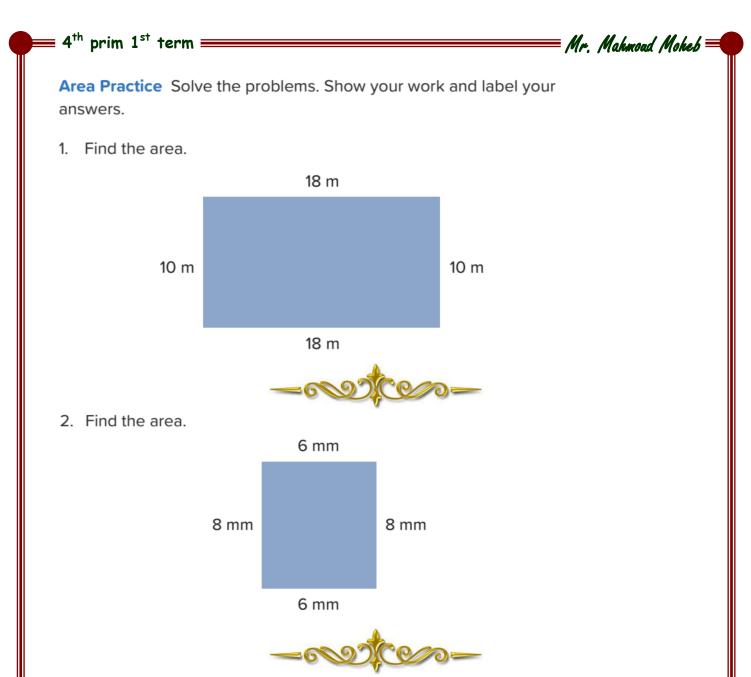
Rectangle Review Compare the shapes in the boxes. Highlight or circle all of the rectangles and place a star on the squares.







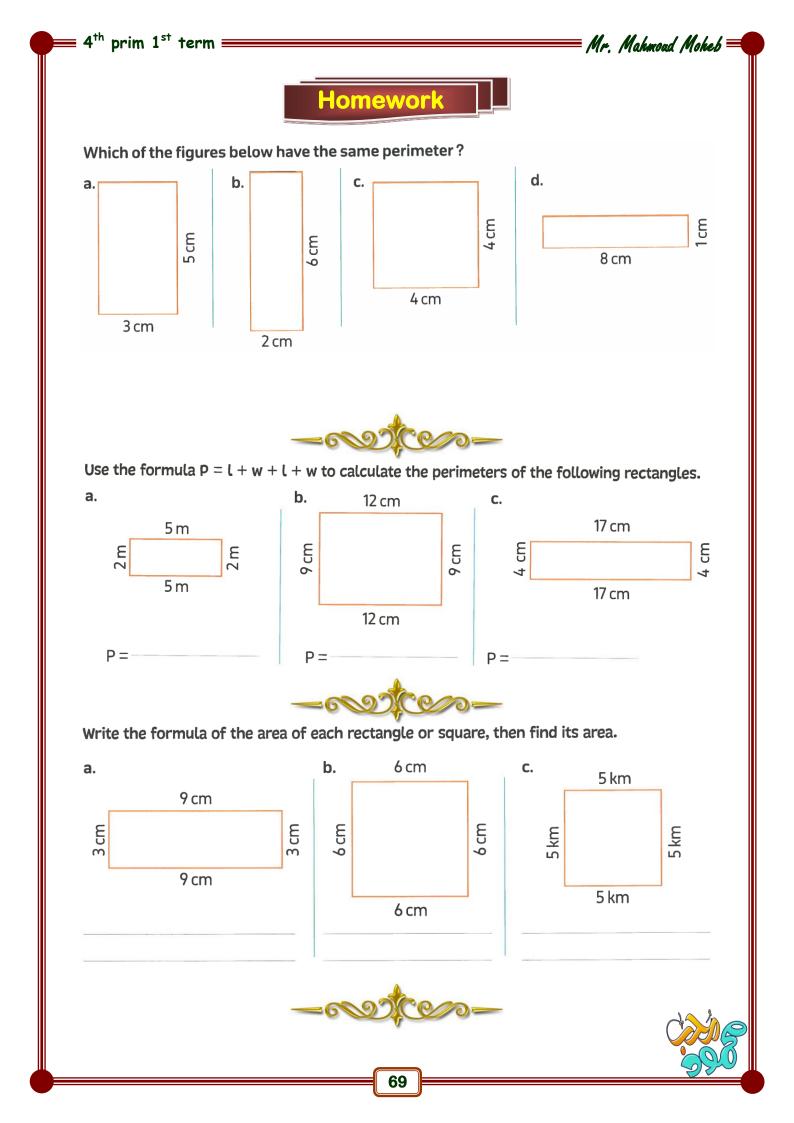




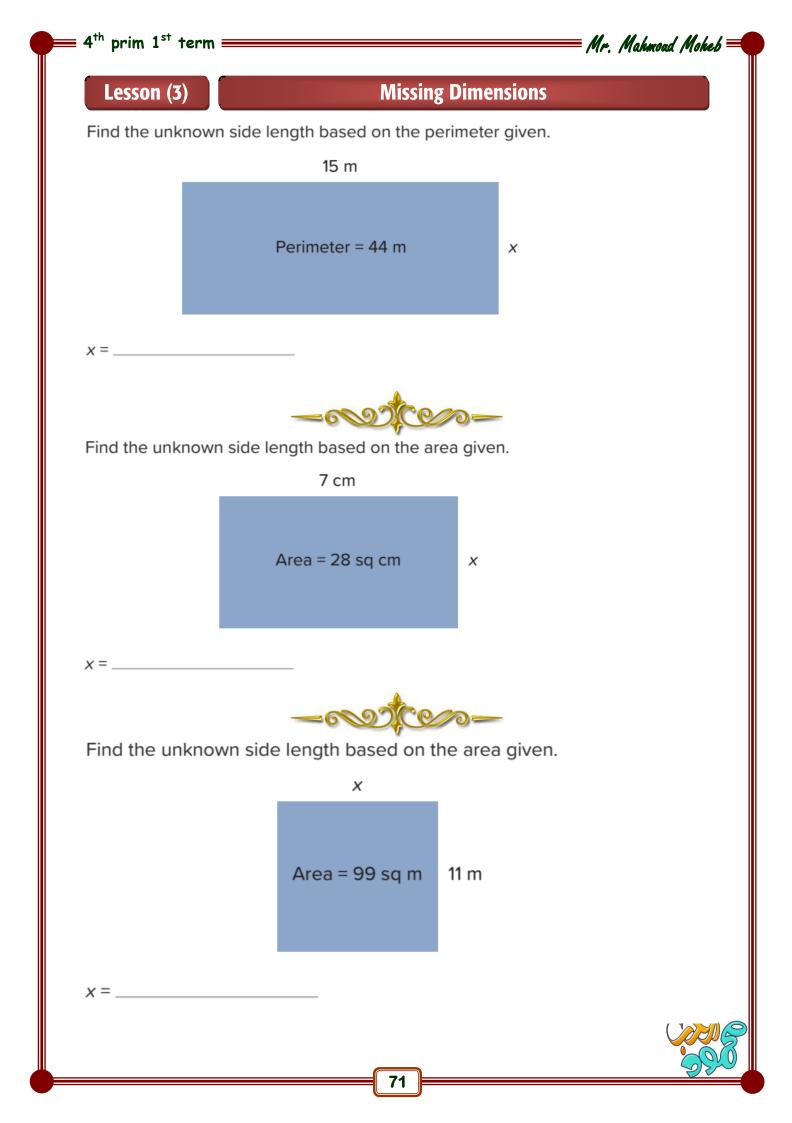
For a science project, two students are creating an ant farm enclosure. Their enclosure will be 5 meters long and 2 meters wide. Sketch the enclosure and label the dimensions. Then, find the perimeter and area.

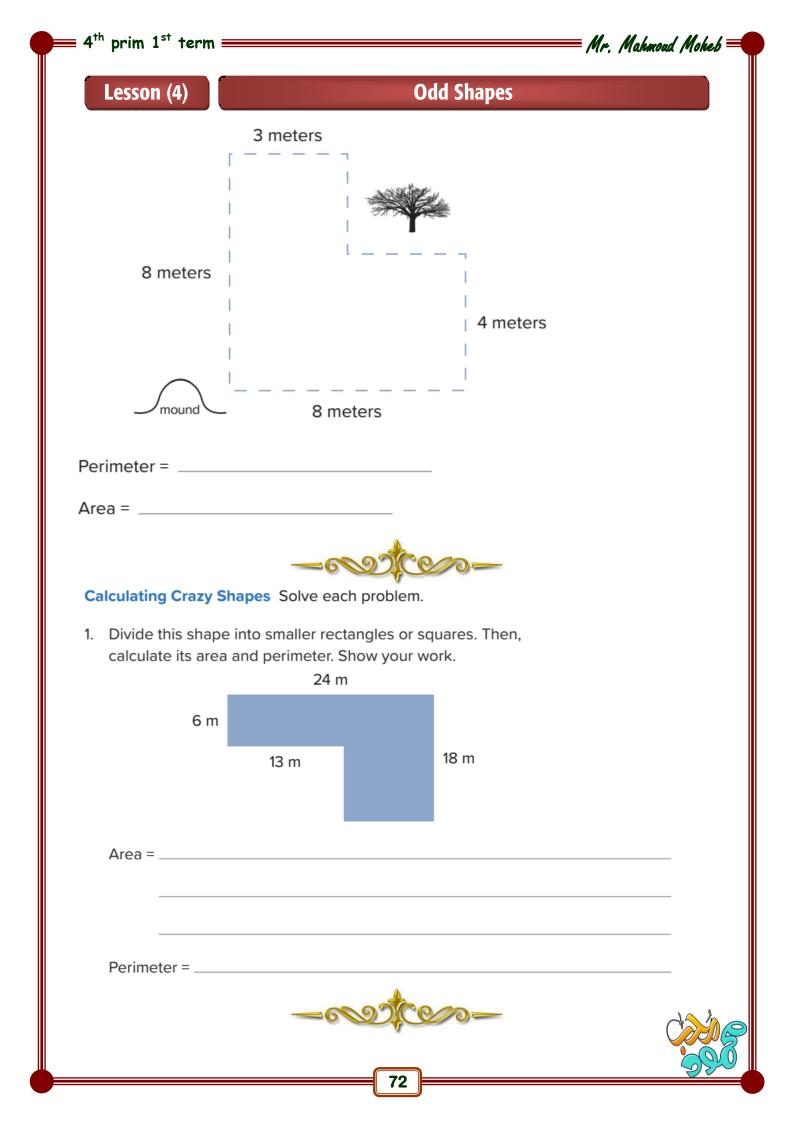


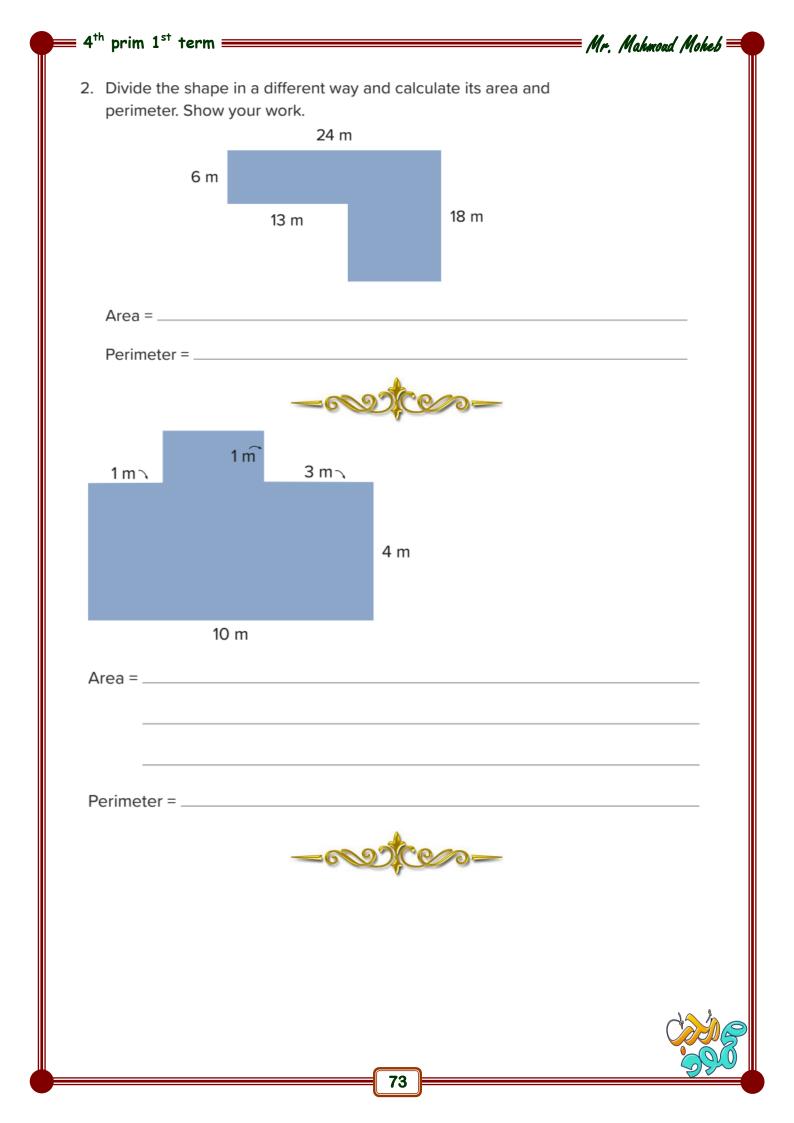


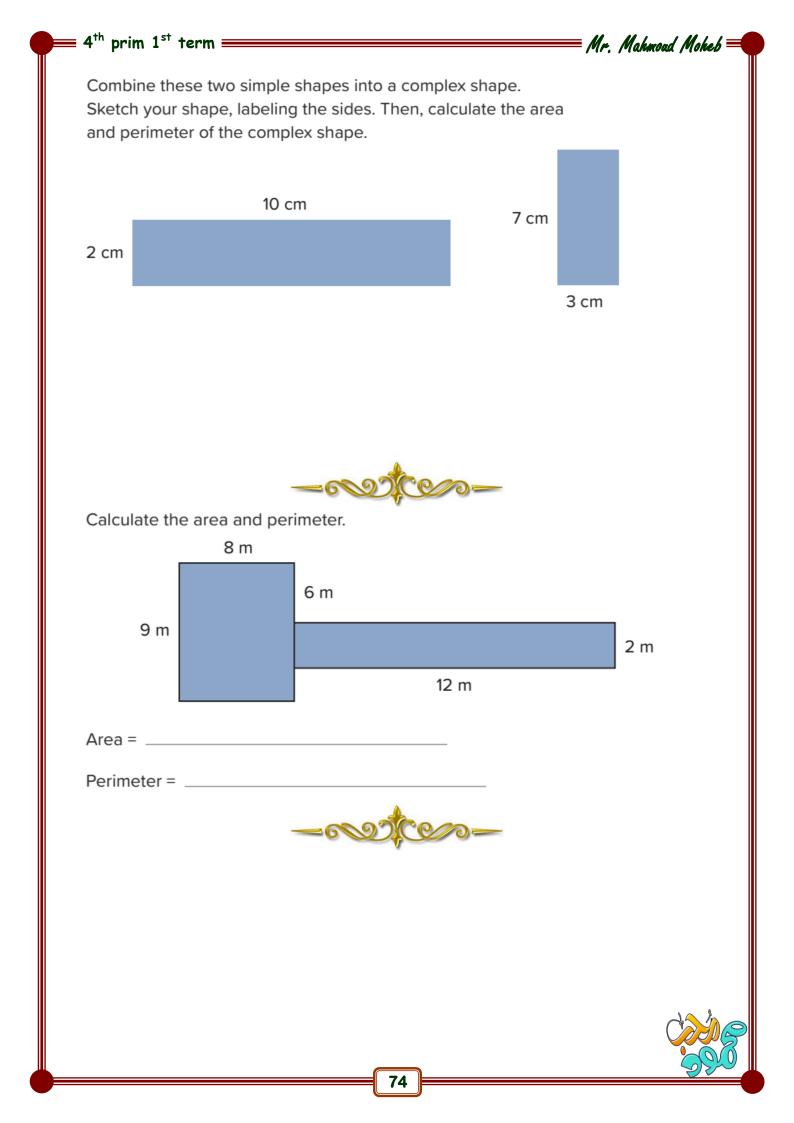


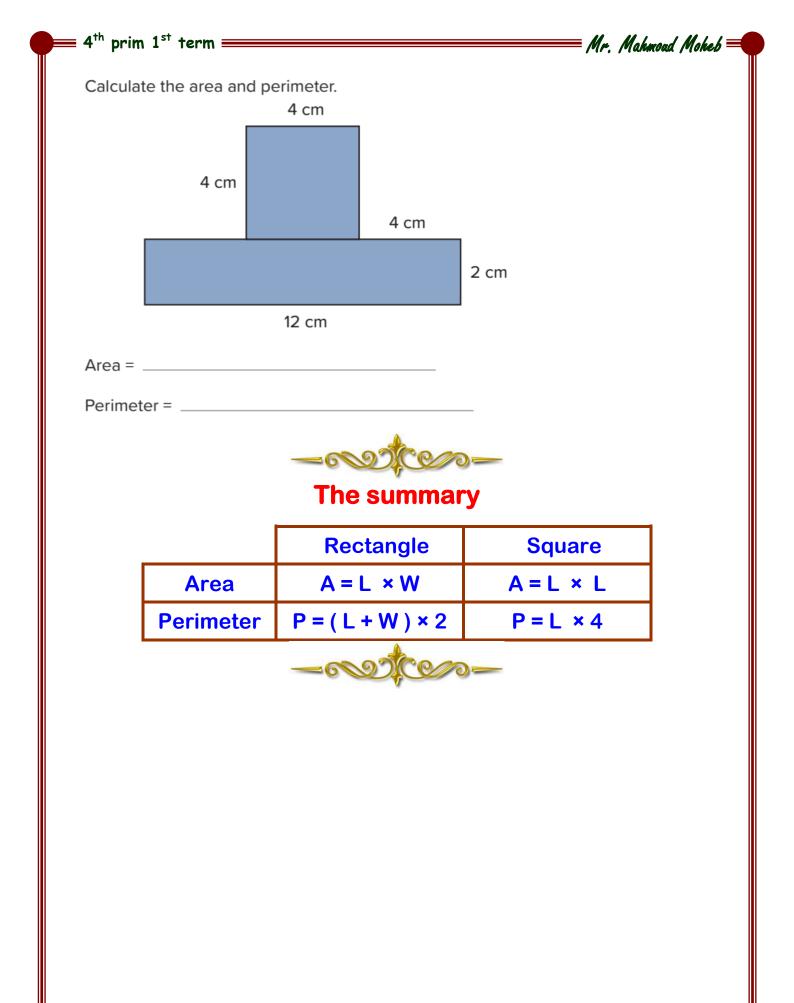
4th prim 1st term ≡ Mr. Makmoad Mokeb 3. Sherif is building a square picture frame. Each side will be 36 millimeters long. What will the perimeter of the frame be? 4. Omar is building a rectangular fence around his garden. The length is 8 meters and the width is 6 meters. How many meters of fencing will he need to build? Find the area and perimeter of the rectangles. Show your work and label your answers. 1. 2 cm 9 cm 2. 97 mm 2 mm 2 mm 97 mm



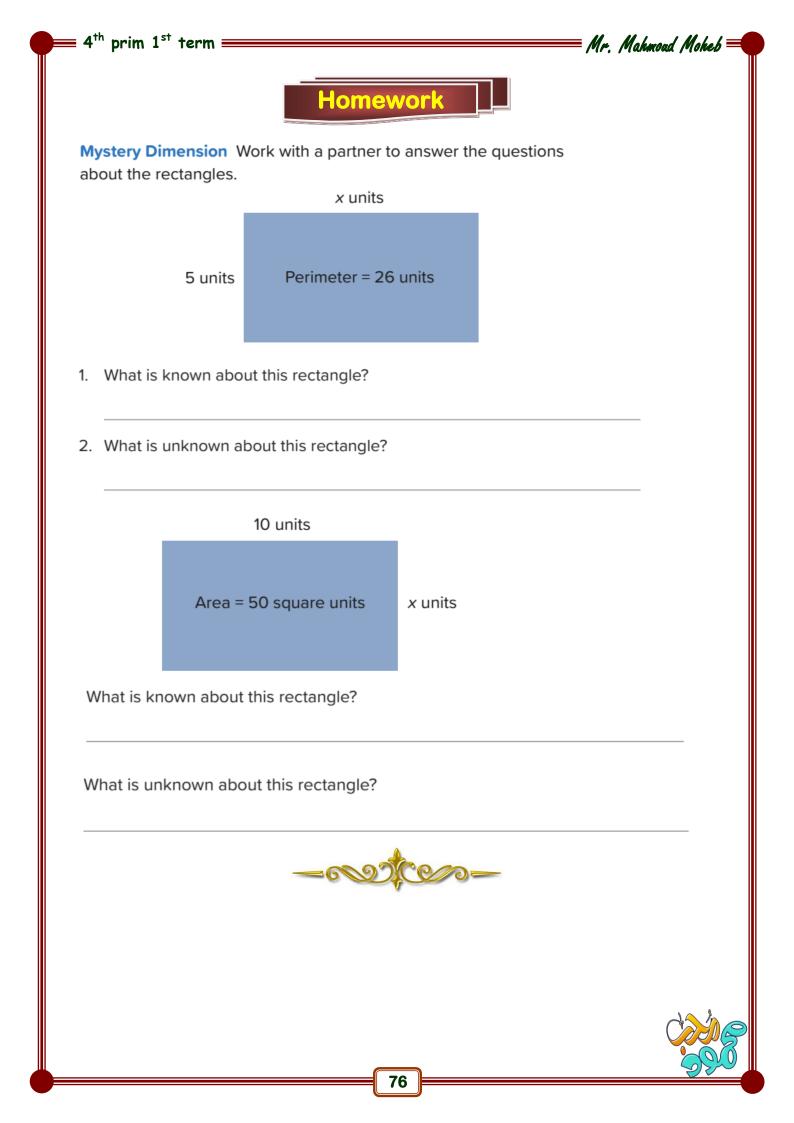


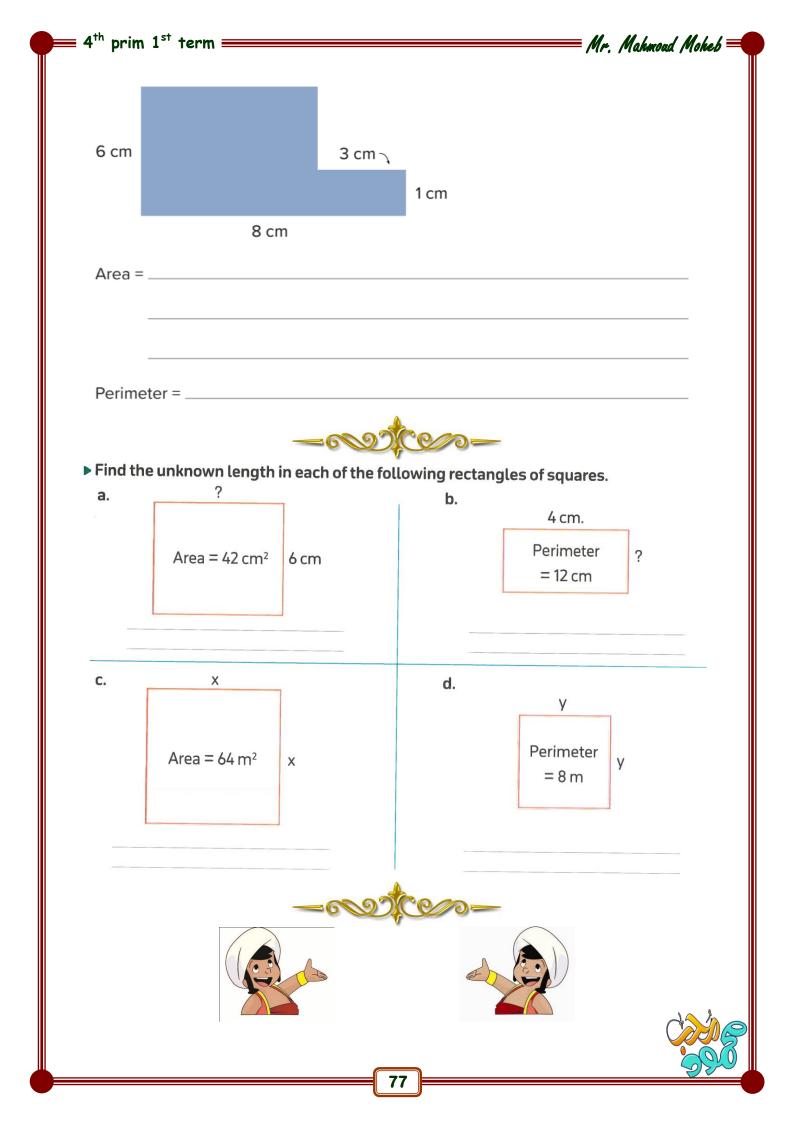




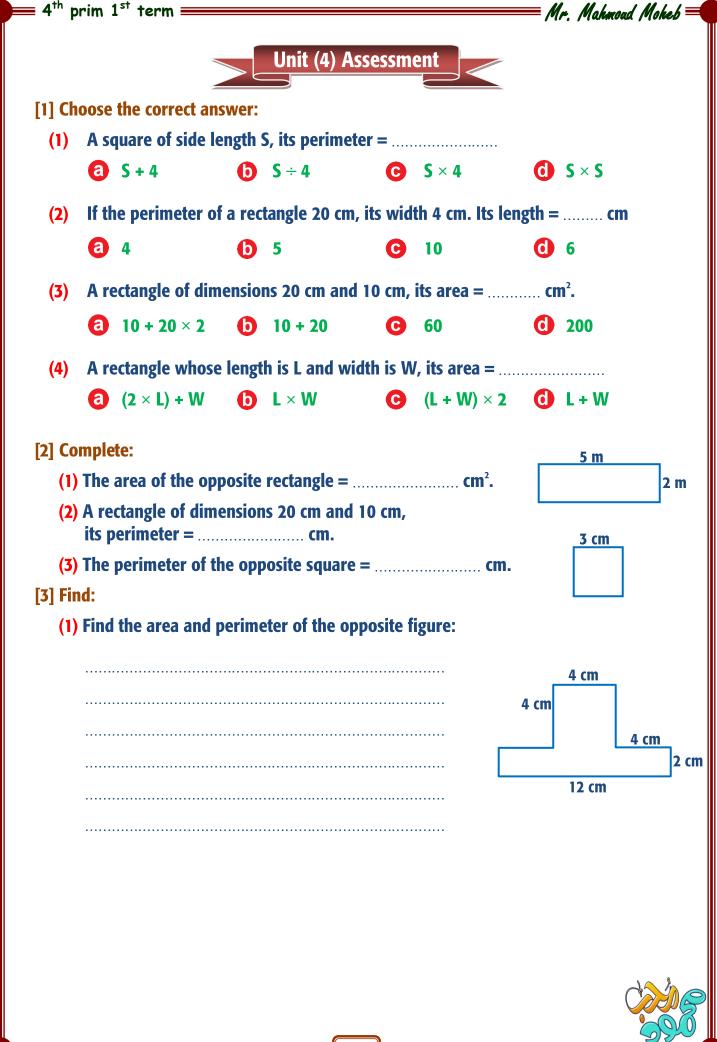








4 th	ⁿ prim 1 st term <i>Mr. Makmoud Mok</i>	eb 🗉
Ch	noose the correct answer:	
	The perimeter of a square =	
1	A) LXL B) $LX4$ C) LXW D) $(L+W)X2$	
2	The area of a square =	
2	A) L X L B) L X 4 C) L X W D) (L+W) X 2	
3	The perimeter of a rectangle =	
-	A) L X L B) L X 4 C) L X W D) (L+W) X 2	
4	The area of a rectangle =	
-	A) LXL B) LX4 C) LXW D) (L+W) X2	
5	The perimeter of a square of side length is 3 cm = cm	
ੱ	A) 12 B) 20 C) 16 D) 28	
6	The perimeter of a square of side length is 5 cm = cm)
`	A) 12 B) 20 C) 16 D) 28	
7	The perimeter of a square of side length is 4 cm = cm)
•	A) 12 B) 20 C) 16 D) 28	
8	The perimeter of a square of side length is 7 cm = cm)
°	A) 12 B) 20 C) 16 D) 28	
9	The area of a square of side length is 3 cm =	
-	A) 9 cm B) 9 cm ² C) 12 cm ² D) 12 cm	
10	The area of a square of side length is 4 cm = cm	2
••	A) 8 B) 16 C) 36 D) 81	
11	The area of a square of side length is 5 cm =	
•••	A) 25 cm B) 25 cm ² C) 20 cm ² D) 20 cm	
12	The area of a square of side length is 6 cm = cm	2
	A) 36 B) 24 C) 60 D) 12	
13	The side length of a square of perimeter is $24 \text{ cm} = \dots \text{ cm}$	'n
-	A) 9 B) 4 C) 5 D) 6	
14	The side length of a square of perimeter is $36 \text{ cm} = \dots \text{ cm}$	n ⁱ
	A) 9 B) 4 C) 5 D) 7	
		<u>ک</u> ر ا
		2







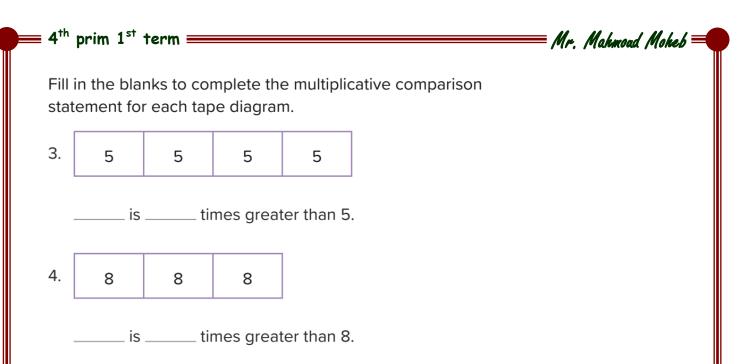
Concept (1): Multiplicative Comparisons

Lesson (1) **Understanding Multiplicative Comparison** 1. Compare 10 and 2. 10 is _____ times greater than 2. 2. Compare 12 and 3. 12 is _____ times greater than 3. 3. Compare 18 and 6. 18 is _____ times greater than 6. -000000-Which statement is an example of a multiplicative comparison? A. A camel is 3 meters in length. A crocodile is 2 meters longer than a camel. B. A camel can weigh up to 1,000 kilograms. This is twice as much as a crocodile weighs. C. Crocodiles have 64 teeth. Camels have 32 fewer teeth than crocodiles. **D.** There are about 30,000 crocodiles in Egypt. There are about 60,000 more camels in Egypt. -000000-Rewrite each equation using multiplication. 1. 6+6+6=18 _____ 2. 2+2+2+2+2+2+2=14 _____





Mr. Makmoad Mokeb =





A building is 20 meters tall. A bridge is 5 meters tall. The building is how many times taller than the bridge?

- **A.** 3
- **B.** 4
- **C.** 15
- **D.** 100

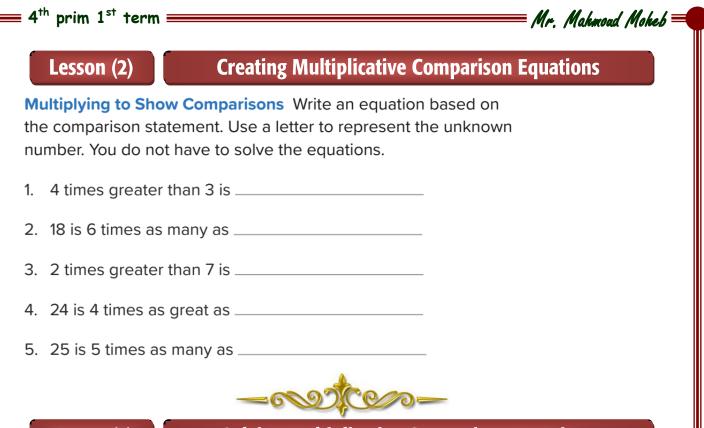


Akil is twice as old as his brother. His brother is 8 years old. Which two equations can be used to find Akil's age?

- **A.** 2 + a = 8
- **B.** 2 × a = 8
- **C.** 2 × 8 = a
- **D.** 8 + 2 = a
- **E.** 8 + 8 = a







Lesson (3)

Solving Multiplicative Comparison Equations

How Many Seats? Use the information in the table to compare numbers of seats in different modes of transportation. Then, enter and solve an equation for each comparison.

Mode of Transportation	Number of Seats				
Bicycle	1				
Motorbike	2				
Car	4				
Truck	6				
Bus	36				
Metro Train	48				

 How many times as many seats are in a truck than on a motorbike?

Equation: _____

Answer: _____

4 [†]	" prim 1 st term <i>Mr. Mahmoud Moheb</i> =
2.	How many times as many seats are on a bus than in a truck?
	Equation:
	Answer:
3.	How many times as many seats are on the metro train than in a car?
	Equation:
	Answer:
4.	A metro train can fit how many times more people than a truck?
	Equation:
	Answer:
5.	A bus has how many times more seats than a car?
	Equation:
	Answer:
	Homework
1.	Compare 15 and 3. 15 is times greater than 3.
2	. Compare 28 and 7. 28 is times greater than 7.
3	. Compare 27 and 9. 27 is times greater than 9.
	-00000-

Khepri and her sister peeled oranges. Khepri peeled 6 oranges. Khepri's sister peeled 3 times as many oranges as Khepri. Which equation can be solved to find the number of oranges that Khepri's sister peeled?

- **A.** 6 + 3 = *n*
- **B.** 6 × 3 = *n*
- **C.** *n* + 3 = 6
- **D.** *n* × 3 = 6



A fish tank has 3 red fish and 17 times as many blue fish. How many blue fish are in the tank?

- **A.** 20
- **B.** 31
- **C.** 17
- **D.** 51



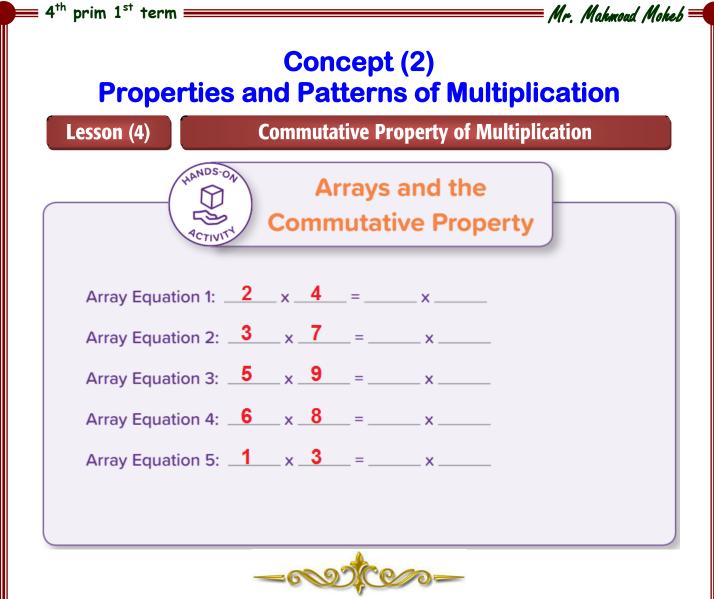
Write an equation for each of the following comparisons, and then solve.

- 1. What number is 5 times greater than 6?
- 2. 36 is 4 times more than what number?
- Ayman ate 4 figs in the morning. His older brother ate 3 times as many. How many figs did his brother eat?





Mr. Mahmoad Moheb



Apply the Commutative Property of Multiplication to complete each equation.

- 1. 5 x 7 = _____ x 5
- 2. 20 × _____ = 6 × 20



Which equation would be best to include in an explanation of the Commutative Property of Multiplication?

- **A.** 3 × 5 = 5 × 3
- **B.** $4 \times 16 = (4 \times 11) + (4 \times 5)$
- **C.** $(6 \times 4) \times 2 = 6 \times (4 \times 2)$
- **D.** 5 × 1 = 5

Lesson (5) Patterns of M	ultiplying by 10s
/hich number is the result of multiplying single-digit number by 10?	Products
A. 14	1 × 10 = 10
	5 × 10 = 50
B. 80	9 × 10 = 90
C. 400	13 × 10 = 130
D. 810	17 × 10 = 170
	21 × 10 = 210

Mental Math Number Talk Look at the problems below. Solve them mentally (without writing anything down).

- 1. 5 x 1
- 2. 12 x 1
- 3. 672 x 1
- 4. 8 x 0
- 5. 16 x 0
- 6. 758 x 0

-6797 °C/O

Which equation shows how to apply the Associative Property of Multiplication to determine the value of $3 \times (2 \times 10)$?

- **A.** 5 × 10 = 50
- **B.** 6 × 10 = 60
- **C.** 3 × 20 = 320

D. 3 × 12 = 36



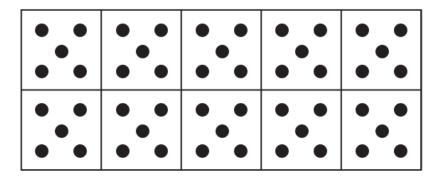




Exploring More Patterns in Multiplication

Mr. Mahmoad Mokeb

Dot Card Number Talk Look at the image. How many dots do you see in the image below? How did you come up with your answer?





Uncovering the Associative Property of Multiplication Solve the problem assigned by your teacher.

Problem 1: 3 x 2 x 4 = _____

Problem 2: 4 x 2 x 3 = _____



Applying the Associative Property of Multiplication Work with a partner to solve the problems. Place parentheses around the factors that you will multiply first. Rewrite the factors in another order if helpful.

- 1. 3 x 2 x 5 = _____
- 2. 4 × 6 × 2 = _____
- 3. 2 x 9 x 3 = _____
- 4. 3 x 2 x 3 = _____





Solve each problem. Multiply the part in the parentheses first. Show your work.

- 1. (2 × 3) × 4 = _____
- 2. (5 × 2) × 3 = _____
- 3. 2 × (3 × 4) = _____
- 4. 5 × (2 × 3) = _____



Write how many Tens make up each number.

- 7. 30 = _____ Tens
- 8. 80 = _____ Tens
- 9. 160 = _____ Tens
- 10. 140 = _____ Tens
- 11. 120 = _____ Tens
- 12. 110 = _____ Tens

-00000-

Decompose each multiple of 10, 100, or 1,000 before multiplying. Draw parentheses around the numbers you would multiply first, and then write the answer.

- 1. 5 × 70 = _____
- 2. 8 × 30 =
- 3. 4 × 40 = _____

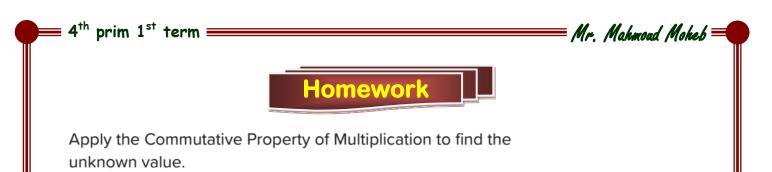
Solve using a strategy you prefer.

4. 6 × 90 =





Mr. Makmoad Mokeb =



- 3. 33 × 4 = 4 × a _____
- 4. b × 9 = 9 × 8



Which equation would be best to include in an explanation of the Associative Property of Multiplication?

- **A.** (9 × 12) × 0 = 0
- **B.** $(4 \times 6) \times 1 = 4 \times 6$
- **C.** $(3 \times 7) \times 2 = 3 \times (7 \times 2)$
- **D.** $(11 \times 8) \times 9 = 9 \times (11 \times 8)$

-022(00)-

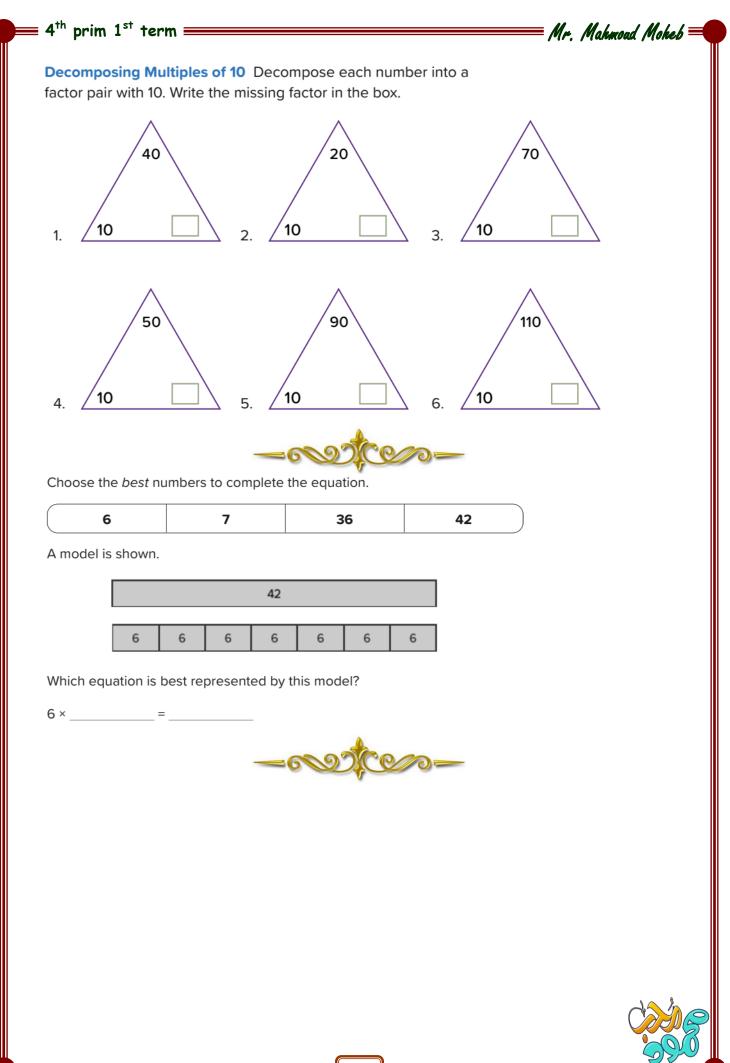
Place parentheses to show one way to find the product. Then, show one other way to use parentheses to find the product.

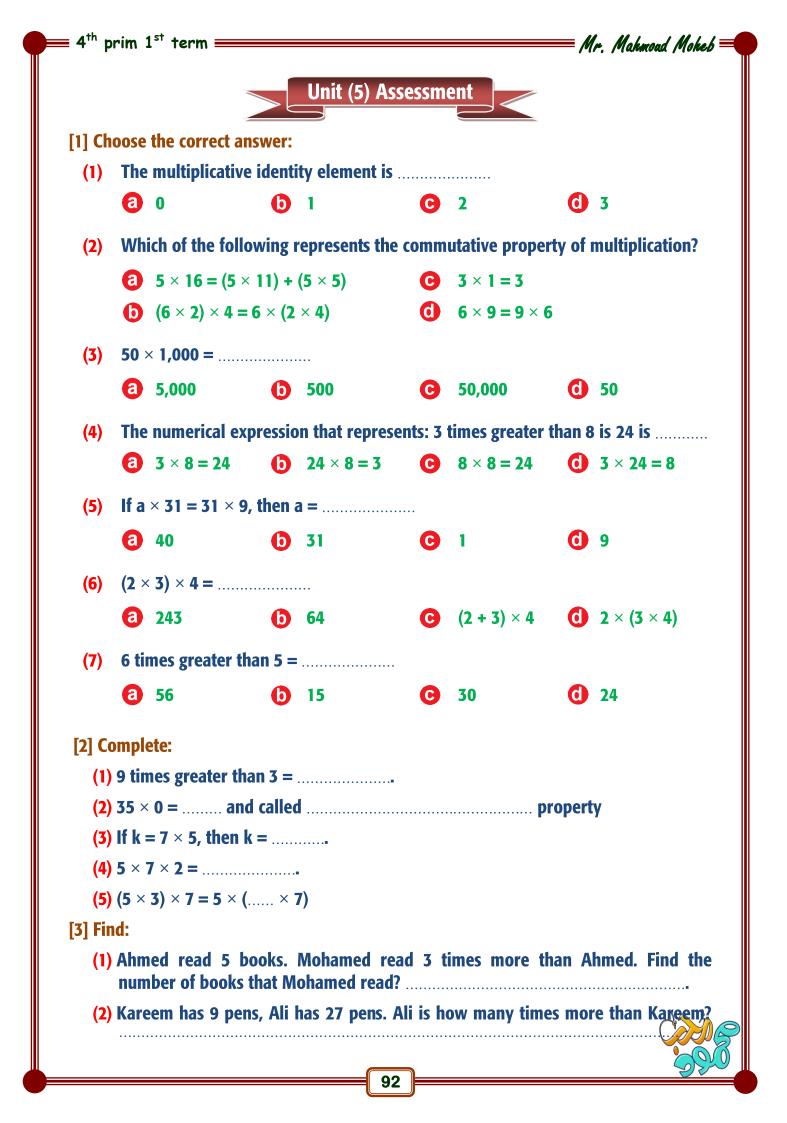
5. 5 x 4 x 2

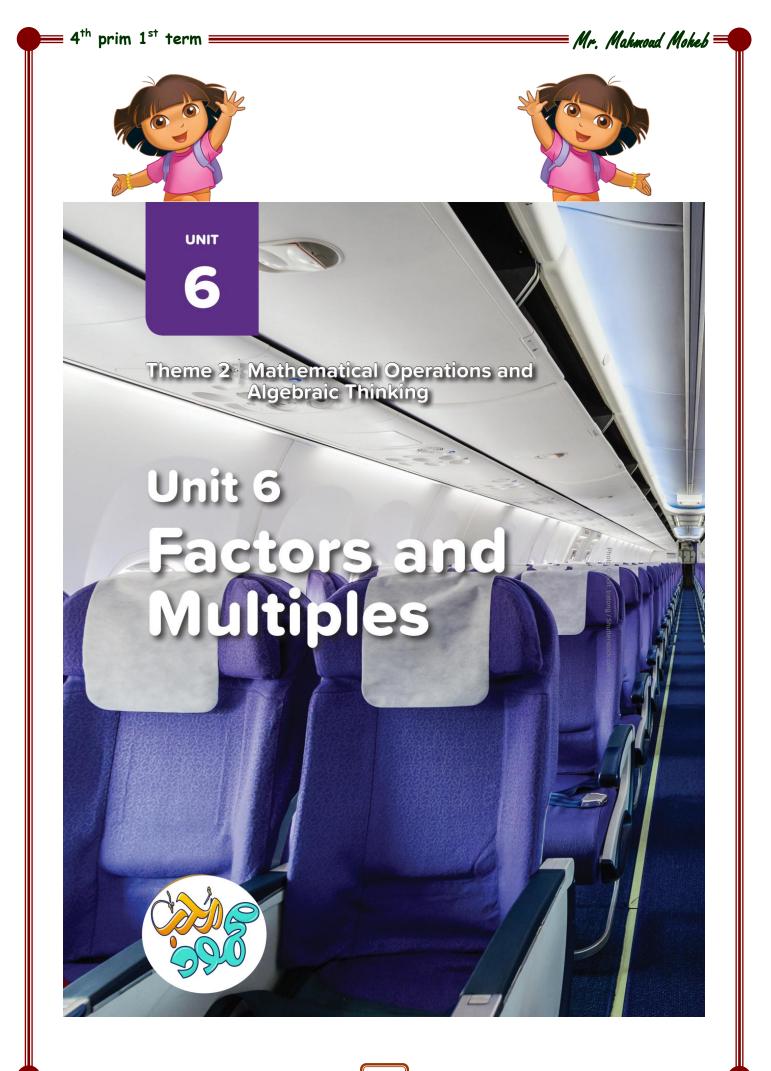
6. 3 x 6 x 2

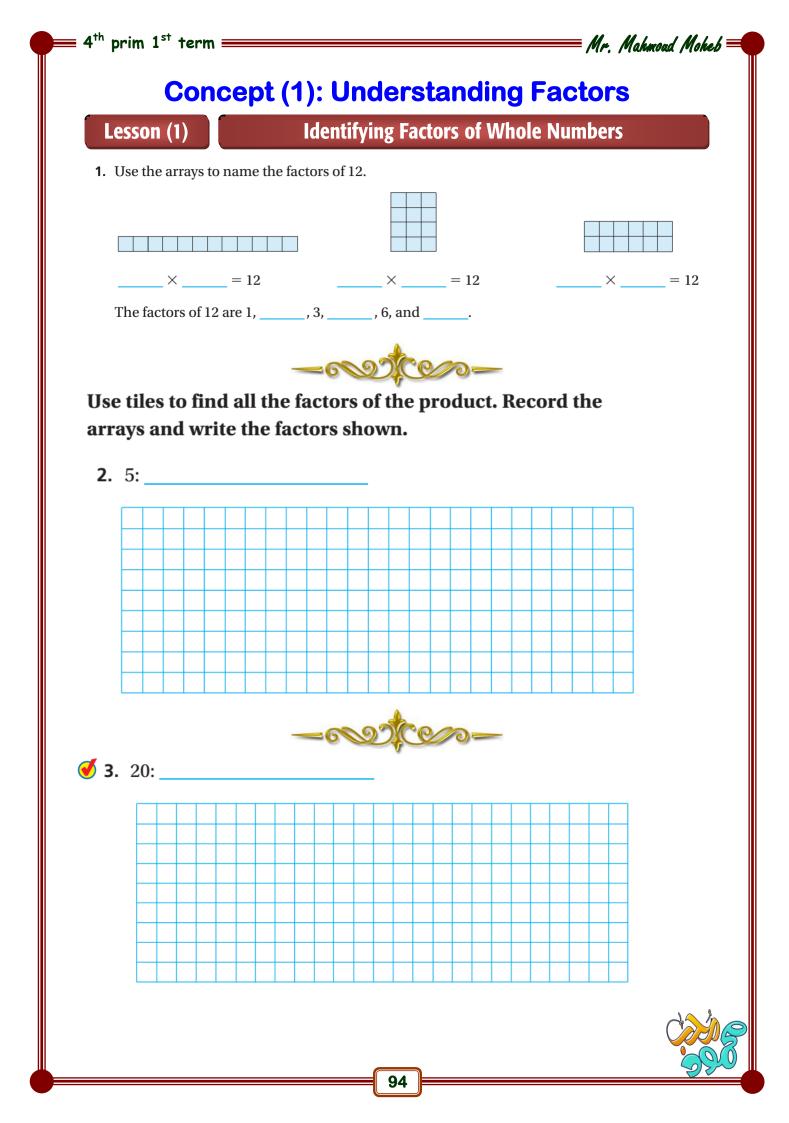


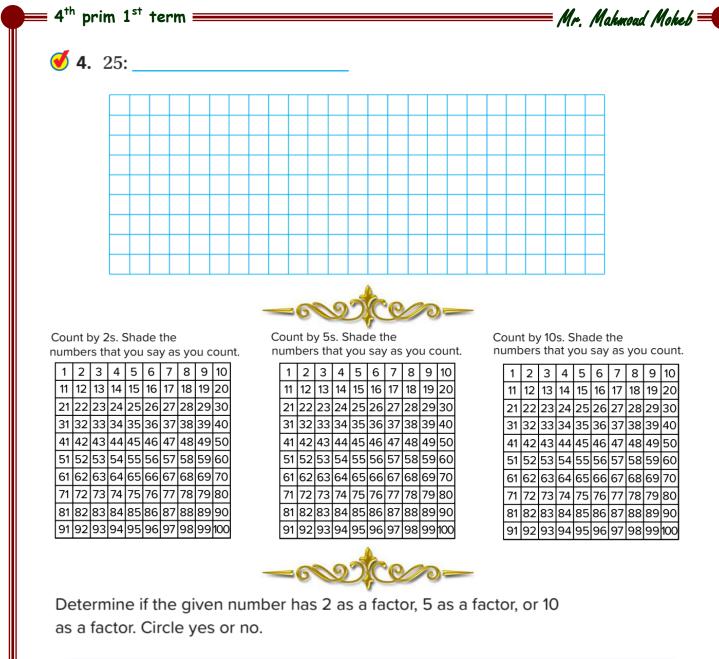








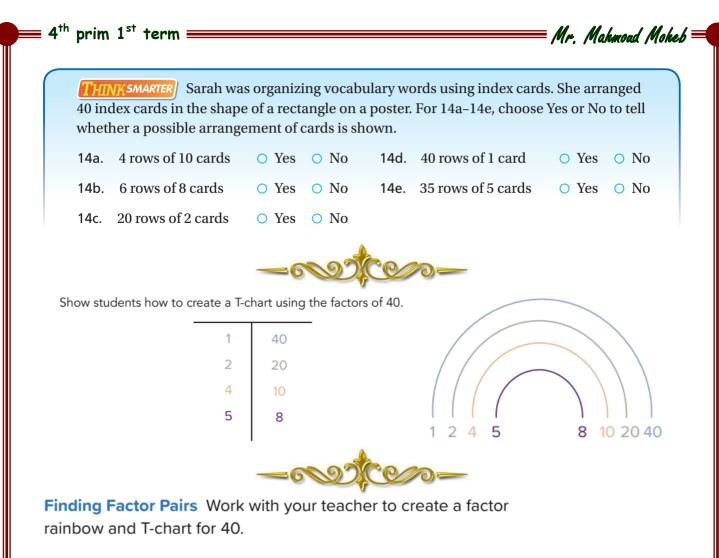




	Number	Is 2 a factor?		Is 5 a factor?		Is 10 a factor?	
1	26	Yes	No	Yes	No	Yes	No
2	70	Yes	No	Yes	No	Yes	No
3	15	Yes	No	Yes	No	Yes	No
4	17	Yes	No	Yes	No	Yes	No







1. List the factors of 40.

Factor Rainbow

T-Chart

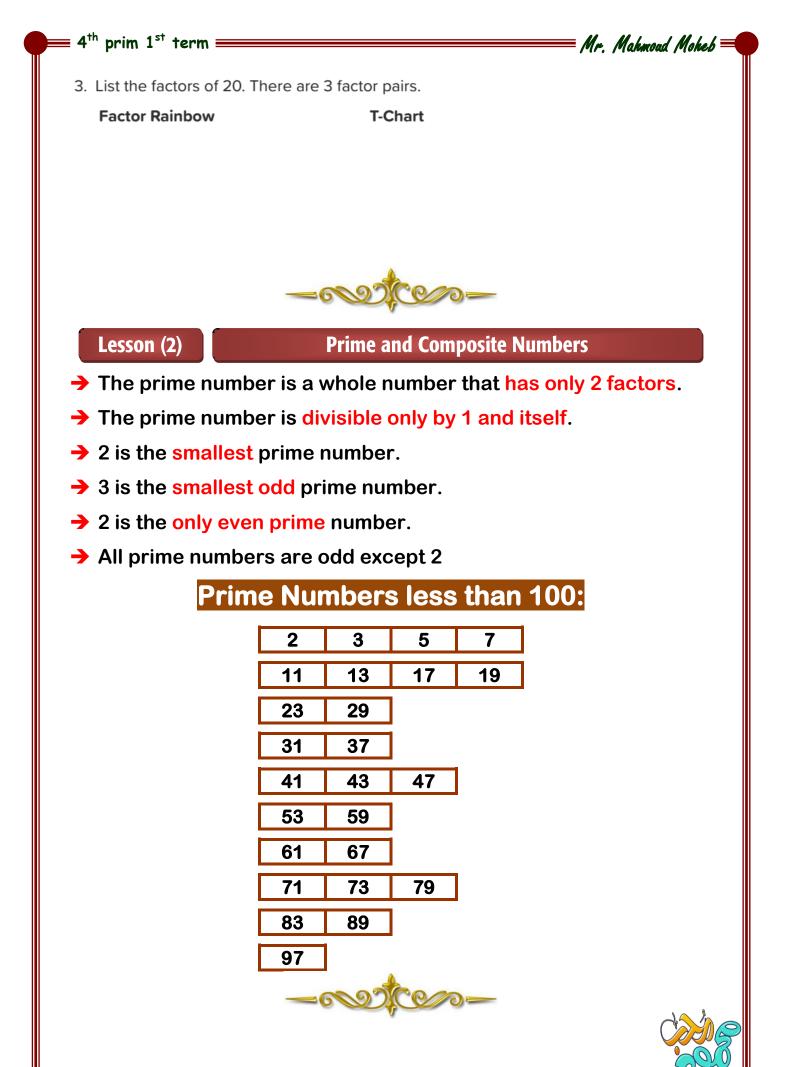


2. List the factors of 36. There are 5 factor pairs.

Factor Rainbow

T-Chart





Lesson (3)

Greatest Common Factor (GCF)

Mr. Makmoad Mokeb =

A class is going on a field trip. There are 36 girls and 27 boys in the class. Students will be divided into groups of girls and groups of boys. What is the greatest number of groups that can be made so that each group has the same number of children? How many children will be in each group of boys? How many children will be in each group of girls?



Find the greatest common factor (GCF) of the given numbers.

- 4. 40 and 48
- 5. 12 and 18
- 6. 10 and 45





Homework

Highlight or circle the factors of the numbers listed.

- 1. 15: 2 5 10
- 2. 30: 2 5 10
- 3. 12: 2 5 10
- 4. 25: 2 5 10
- 5. 36: 2 5 10



List all of the factors of each number. You may create a factor tree, factor rainbow, or factor T-chart.

- 6. 25:
- 7. 19:
- 8. 48:
- 9. 16:



Is 9 a factor of the number? Write yes or no.

6. 54

7. 63

8. 67

9. 93

Mr. Mahmoad Moheb ==

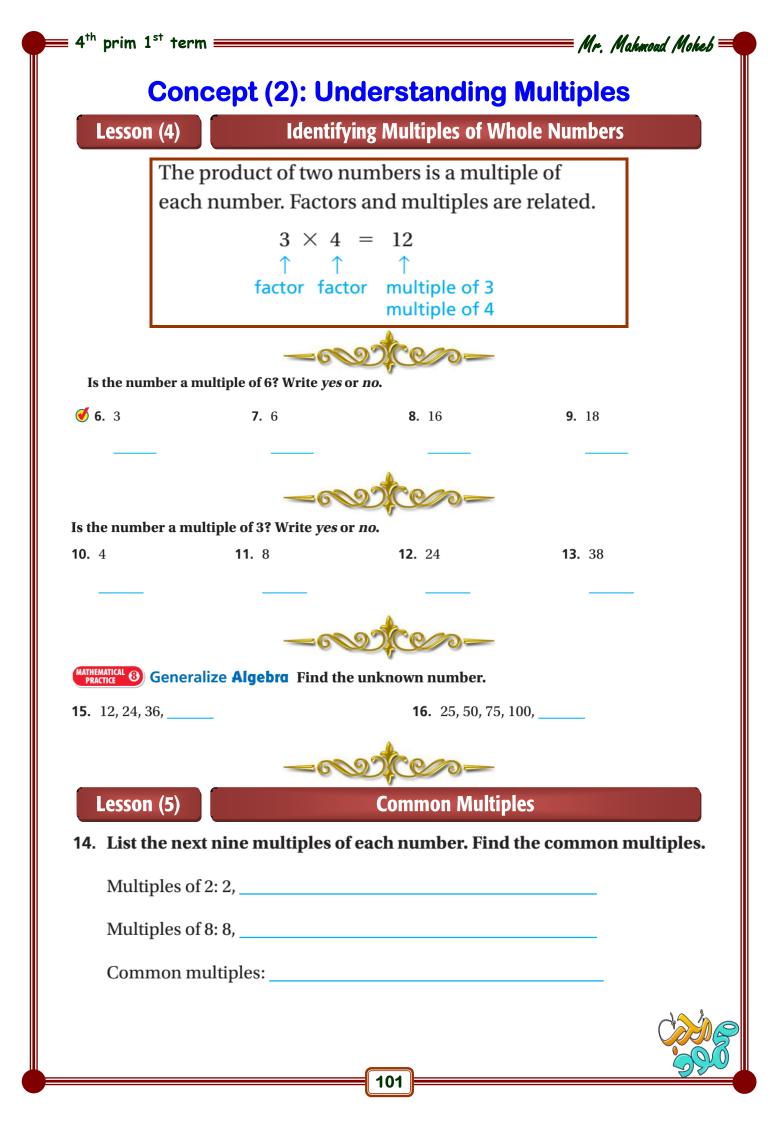


Color the prime numbers in red:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	15	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



		n, write if the number is	
prime or compos	nte.		
1. 14		4. 59	
2. 46		5 50	
2. 40		5. 50	
3. 22		6. 29	
		ater -	
Choose the best w	ords or numbers to compl	ete each statement.	
correct incorrect	1, 2, 3, 6	1, 2, 3, 6	3 6
Inconect	1, 2, 3, 6, 9, 18 1, 2, 3, 4, 6, 8, 12, 24	1, 2, 3, 6, 9, 18 1, 2, 3, 4, 6, 8, 12, 24	12
Formi could the areat			
Ferri Salu tre great	est common factor of 18 a	110 24 WdS 12.	
Femi was	beca	use the factors of 18 are	
	an	d the factors of 24 are	
	Th	ne greatest common factor	of
18 and 24 is	·		
	-00		



	RACTICE	
1.	Find a common multiple of 4 and 8:	
2.	Find a common multiple of 7 and 3:	_
3.	Find two common multiples of 2 and 6:	_
4.	Find two common multiples of 4 and 6	_
5.	Which is a common multiple of 5 and 8: 20, 40, 35	_
6.	Which is NOT a common multiple of 9 and 6: 18, 27, 36	_
Wri	Lesson (6) Relationships between Factors and Multiples nk about the relationships between the numbers in each group. ite at least two sentences describing what you notice. 3, 6, and 12	
Wri	nk about the relationships between the numbers in each group. ite at least two sentences describing what you notice.	
Wri 1.	nk about the relationships between the numbers in each group. ite at least two sentences describing what you notice.	
Wri 1. 2.	nk about the relationships between the numbers in each group. ite at least two sentences describing what you notice. 3, 6, and 12	

Which list of numbers are all common multiples of 3 and 7?

- **A.** 1, 3, 7
- **B.** 21, 42, 63
- **C.** 21, 28, 35
- **D.** 15, 21, 27



Is 27 a multiple of 9?

- A. yes, because factors of 27 are 3 and 9
- B. no, because factors of 9 are 1 and 9
- C. no, because multiples of 27 are 9 and 243
- D. yes, because multiples of 27 are 9 and 3



Bes thinks 12 is a factor of 36. Is he correct?

- A. no, because 36 is not a factor of 12
- B. yes, because 12 is not a multiple of 36
- C. no, because 12 and 36 are evenly divisible by 2
- **D.** yes, because 12 can be evenly multiplied to equal 36



THINK SMARTER For numbers 29a–29e, select True or False for each statement.

- The number 45 is a multiple of 9. 29a. O True
- 29b. The number 4 is a multiple of 16. O True
- 29c. The number 28 is a multiple of 4. O True
- The number 4 is a factor of 28. 29d.
- 29e. The number 32 is a factor of 8.





- False

Mr. Makmoad Mokeb =

- False
 - False

○ False

○ False

 \bigcirc True

Homework

Choose the correct answer:

= Mr. Mahmoad Moheb 🔫

1	Number of factor A) 2	ors of 3 is B) 3	C)	4	D) 5
2	Number of factor A) 2	ors of 8 is B) 3	C)		D) 5
3	Number of facto A) 2	ors of 9 is B) 3			D) 5
4	The number 12 A) 3	has B) 4	C)		D) 6
5	3 is a factor of A) 35		C)	27	D) 31
6	3 is a factor of . A) 18		C)	25	D) 31
7		is a factor of 6 B) 5	C)	7	D) 9
8	A) 5	is a factor of 12 B) 3	2 C)	9	D) 10
9	The number tha A) Odd	t is divisible by 2 B) Even		alled Prime	D) Otherwise
10	The number tha A) 2	at has only two fa B) 10	cto C)		D) 9
11	The smallest ev A) 0	en prime numbe B) 1	r is C)		D) 3
12	Isap A)4	orime number. B) 6	C)	8	D) 7

4 th	prim 1 st term ≡			Mr. Mak	moad Mokeb 🔫
13	Is a A) 11	a prime numbe B) 6	er. C) 8	D) 10	
14	From the prin A) 31	ne numbers B) 10	C) 12	D) 16	
15	Is a A) 1	a prime factor o B) 6	of 10 C) 5	D) 10	
16	Is : A) 33	a prime numbe B) 35	er between 30 and C) 37	40 is D) 39	
17	Is a A) 33	a prime numbe B) 35	r between 32 and 4 C) 37	40 is D) 39	
18	The number v A) 20	whose prime fa B) 22	ictors are 2 , 2 , 2 a C) 24	nd 3 is D) 28	
19	Number of fac A) 2	ctors of 4 is B) 3	C) 4	D) 5	
20	Number of fa A) 2	ctors of 11 is B) 3	C) 4	D) 5	
21	The number 7 A) 3		C) 5	D) 6	
22	5 is a factor o A) 25	of B) 8	C) 16	D) 24	
23	A) 10	is a factor o B) 1	of 6 C) 7	D) 9	
24	A) 5	is a factor o B) 7	of 12 C) 4	D) 10	
25	The number 1 A) 12	hat has only tv B) 7	vo factors is C) 6	D) 9	
26	The only even A) 0	n prime numbe B) 1	r is C) 2	D) 3	
		-61	entre		
			= 105		

4™ p	orim 1 st term			——— Mr. Mahmoad Mi	skeb
		Unit (6)	Assessment	-	
[1] Ch	oose the corre	ect answer:			
(1)	17 has	factor(s).			
	a 1	b 2	C 3	d 4	
(2)	is a mu	Iltiple of 9.			
	a 4	b 36	O 16	6	
(3)	The smallest	odd prime number is	5 .		
	a 0	. () 1	C 2	d 3	
(4)	The common	multiple of all numb	ers is		
(-)	a 0	b 1	C 2	d 3	
(5)	The common	factor of all numbers	s is		
(3)		b 1	C 2	d 3	
(6)	is a cou	-	•	•	
(6)	a 5	mposite number.	C 3	d 4	
(7)		•			
(7)		he two numbers 18 an	6	() 72	
	-	•		• • •	
	omplete:				
		prime number is			
		mber that just after 7			
		Itiple of 3, since 3 × . 8 are:,			
			two numbers 2 and 8		
(3) [3] Fir					
		of the two numbers:	12 and 18.		
(2)	Find 4 commo	on multiples of the tw	o numbers 2 and 4.		
				C	J.



UNIT



Mr. Makmoad Mokeb

Theme 2 | Mathematical Operations and Algebraic Thinking

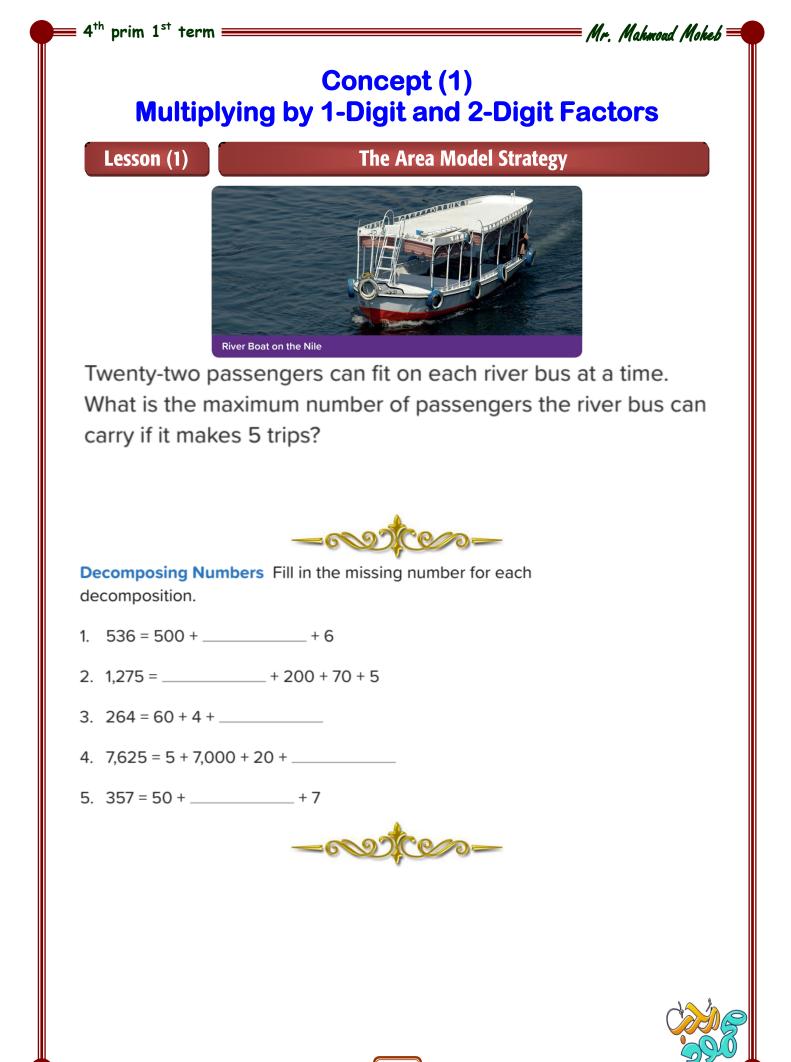
Unit 7MultiplicationAnd DivisionAnd DivisionComputationComputationAndBelationships

 \blacksquare 4th prim 1st term \blacksquare

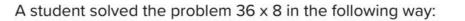
									<i>j</i>	/~/ 0.00000000	
1	1	1	1	1	1	1	1	1	1	1	1
× 1 ×	< 2	× 3	× 4	× 5	× 6	× 7	× 8	× 9	× 10	× 11	× 12
1	2	3	4	5	6	7	8	9	10	11	12
	2	2	2	2	2	2	2	2	2	2	2
×	< 2	× 3	× 4	× 5	× 6	× 7	× 8	× 9	× 10	× 11	× 12
	4	6	8	10	12	14	16	18	20	22	24
		3	3	3	3	3	3	3	3	3	3
		× 3	× 4	× 5	× 6	× 7	× 8	× 9	× 10	× 11	× 12
		9	12	15	18	21	24	27	30	33	36
			4	4	4	4	4	4	4	4	4
			× 4	× 5	× 6	× 7	× 8	× 9	× 10	× 11	× 12
			16	20	24	28	32	36	40	44	48
				5	5	5	5	5	5	5	5
				× 5	× 6	× 7	× 8	× 9	× 10	× 11	× 12
				25	30	35	40	45	50	55	60
					6	6	6	6	6	6	6
					× 6	× 7	× 8	× 9	× 10	× 11	× 12
					36	42	48	54	60	66	72
						7	7	7	7	7	7
						× 7	× 8	× 9	× 10	× 11	× 12
	f					49	56	63	70	77	84
· / '		u do r					8	8	8	8	8
		moriz					× 8	× 9	× 10	× 11	× 12
		l, ther					64	72	80	88	96
		o nee		/				9	9	9	9
		ontinu	ie. (~ ~			× 9	× 10	× 11	× 12
				1	20			81	90	99	108
				X		5			10	10	10
				1	V)			× 10	× 11	× 12
			-	N	U	n	~		100	110	120
			Ę	13	1.0000	6)	3			11	11
			2	1		1	5			× 11	× 12
			~	2	\wedge	2	-			121	132
			(P	/	Y	$\overline{)}$			<u>.</u>	12
			1			C					× 12
											144
					— 1	08				(

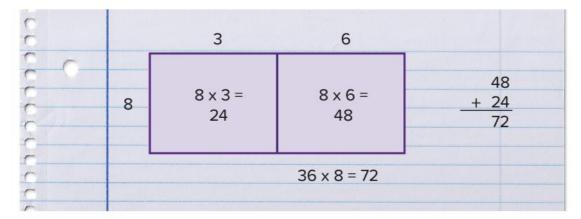
= Mr. Mahmoud Moheb 💳

≡ 4 th pi	rim 1 ^{st .}	term ≡							— Mr.	Mahmoad	[Moheb =
1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6	1 × 7	1 × 8	1 × 9	1 × 10	1 × 11	1 × 12
	2 × 2	2 × 3	2 × 4	2 × 5	2 × 6	2 × 7	2 × 8	2 × 9	2 × 10	2 × 11	2 × 12
	L	3 × 3	3 × 4	3 × 5	3 × 6	3 × 7	3 × 8	3 × 9	3 × 10	3 × 11	3 × 12
			4 × 4	4 × 5	4 × 6	4 × 7	4 × 8	4 × 9	4 × 10	4 × 11	4 × 12
			L	5 × 5	5 × 6	5 × 7	5 × 8	5 × 9	5 × 10	5 × 11	5 × 12
					6 × 6	6 × 7	6 × 8	6 × 9	6 × 10	6 × 11	6 × 12
						7 × 7	7 × 8	7 × 9	7 × 10	7 × 11	7 × 12
		6	20				8 × 8	8 × 9		8 × 11	-
		Ċ	3	5			L	9 × 9	9 × 10	9 × 11	9 × 12
	E	2	~	5	3				10 × 10	10 × 11	10 × 12
	C	s		R	\supset					11 × 11	11 × 12
											12 × 12
										(



4th prim 1st term ≡





Is that true? Why?

Lesson (2)



The Distributive Property and Area Models Use the area model to solve each problem.

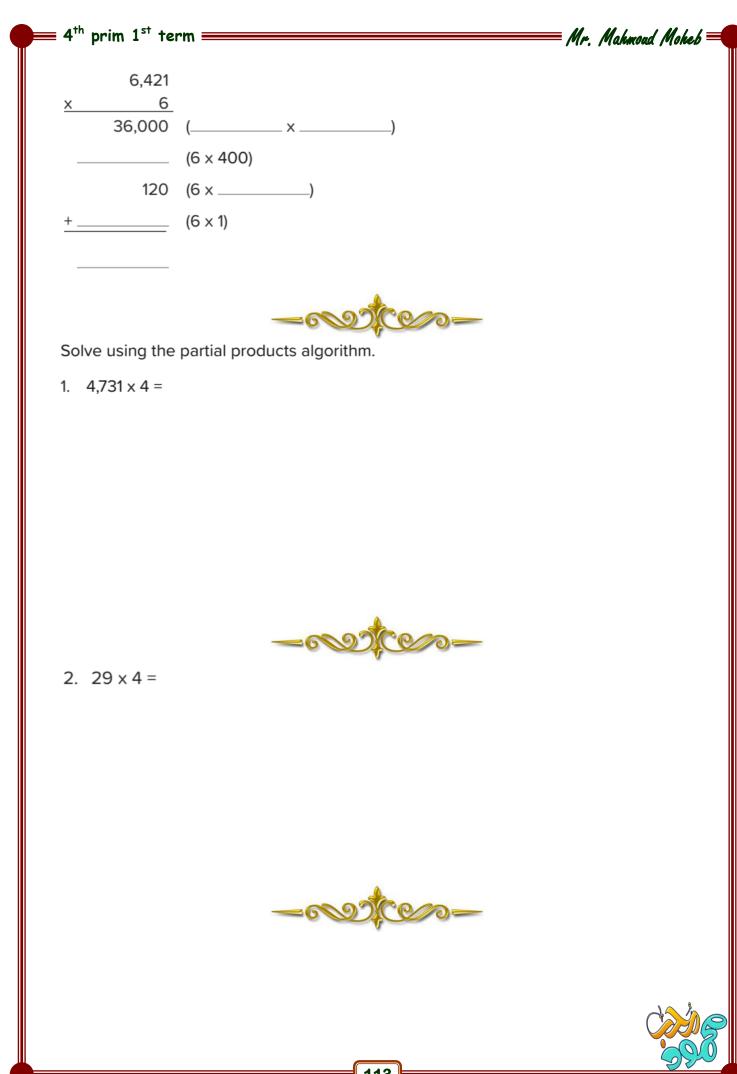
- 1. 249 x 5
- 2. 4,734 x 5
- 3. 530 x 7
- 4. 2,391 x 8

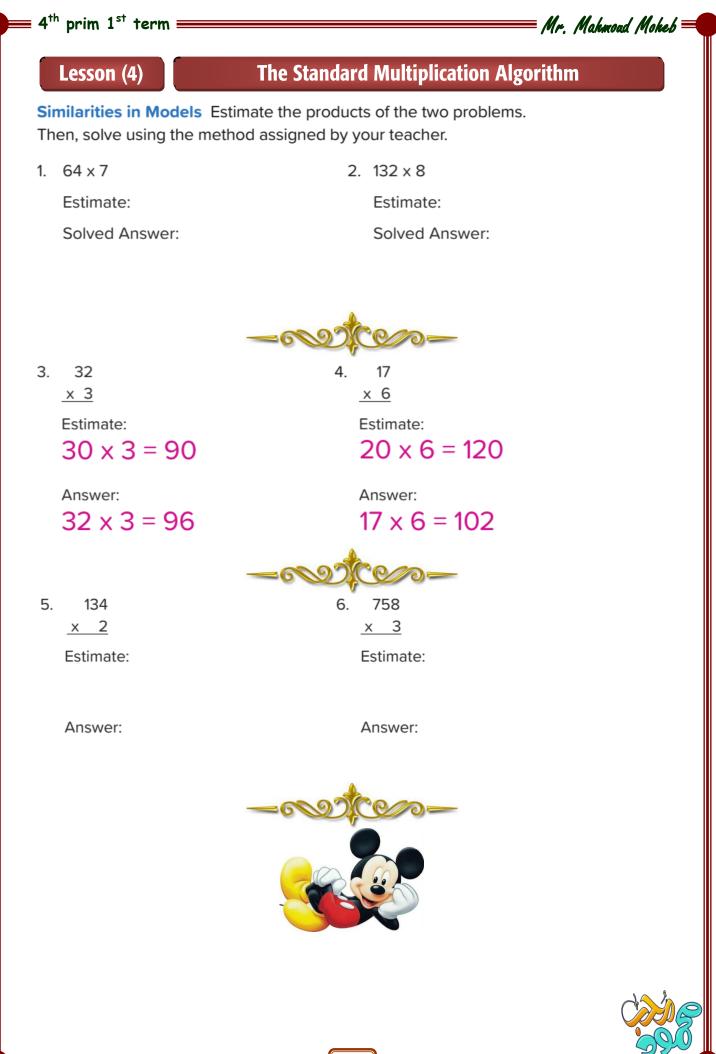




Mr. Mahmoad Moheb =

Lesson (3)	The Partial Products Algorithm
xample: 731 × 4 2,800 (7 120 (3 + 4 (1 2,924	$\begin{array}{c} 0 \times 4 \end{array} \qquad \qquad \begin{array}{c} 210 \ (\underline{} 7 \times \underline{} 30 \\ 7 \end{array} \end{array} $
Problem	Partial Products
7 x 59	
624 x 4	
6 x 3,293	
	-00000-
	\sim



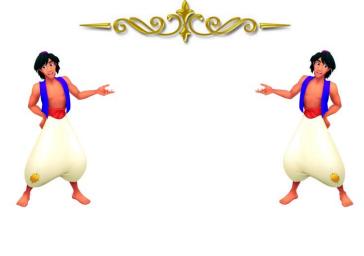


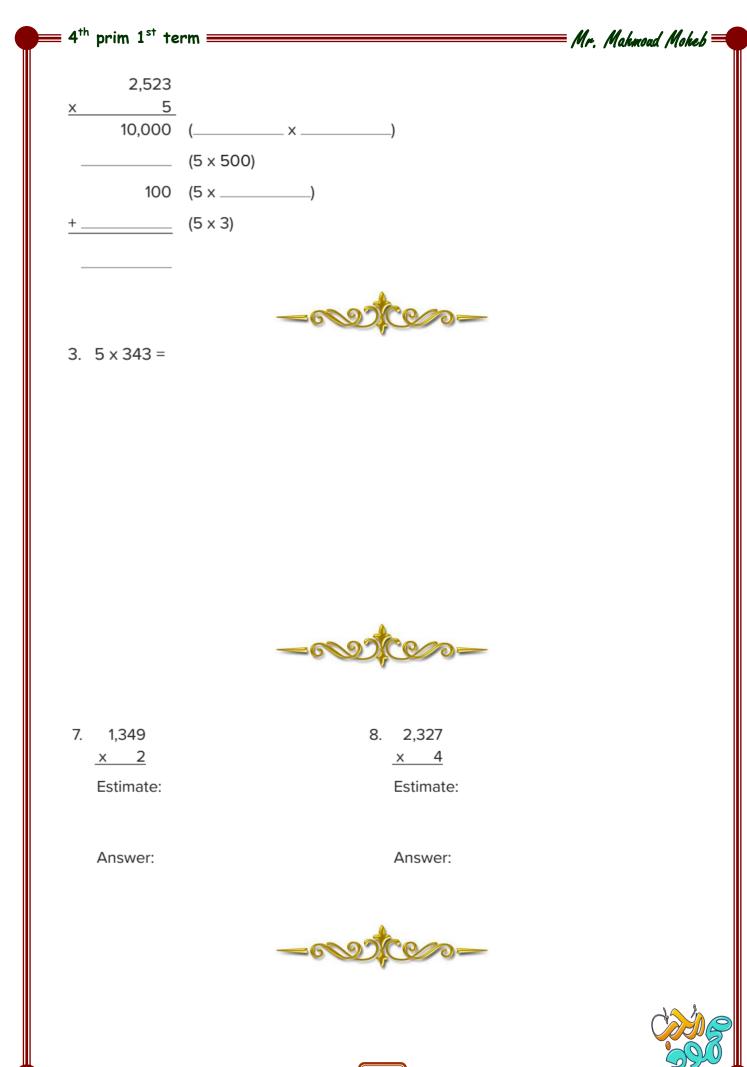
Homework

Mr. Makmoad Moheb =

Use numbers and symbols to solve each problem.

	Problem	Numbers and Symbols
1.	32 x 7	
2.	5 x 483	
3.	7 x 723	
4.	1,673 x 8	





Lesson (5)



Concept (2): Dividing by 1-Digit Divisors

Exploring Remainders

Learning Targets

- I can identify the dividend, divisor, and quotient of a division problem.
- I can solve division problems.
- I can explain what a remainder represents in a division problem.



Division Patterns Label the parts in the equation using the words divisor, dividend, and quotient. Then, look for patterns to complete the remaining problems. The first problem in the table is an example that is filled in for you.

600 ÷ 3 = Answer

600 is called the _____.

3	is	called	the		
З	IS	called	the .		

The answer is called the _____



There were 540 crayons in a large bin. Students were asked to put 9 crayons in a small box for each student to use. How many small boxes will students need in order to complete this task?





Put the suitable sign (<), (>) or (=):

350 ÷ 7	 450 ÷ 5
2,000 ÷ 5	 4,000 ÷ 5
400 ÷ 4	 1,000 ÷ 2
30,000 ÷ 6	 20,000 ÷ 4
24,000 ÷ 8	 20,000 ÷ 5
450 ÷ 5	 8,100 ÷ 9
2,400 ÷ 6	 1,500 ÷ 3
64,000 ÷ 8	 4,800 ÷ 6
300 ÷ 5	 400 ÷ 8
45,000 ÷ 9	 2,500 ÷ 5

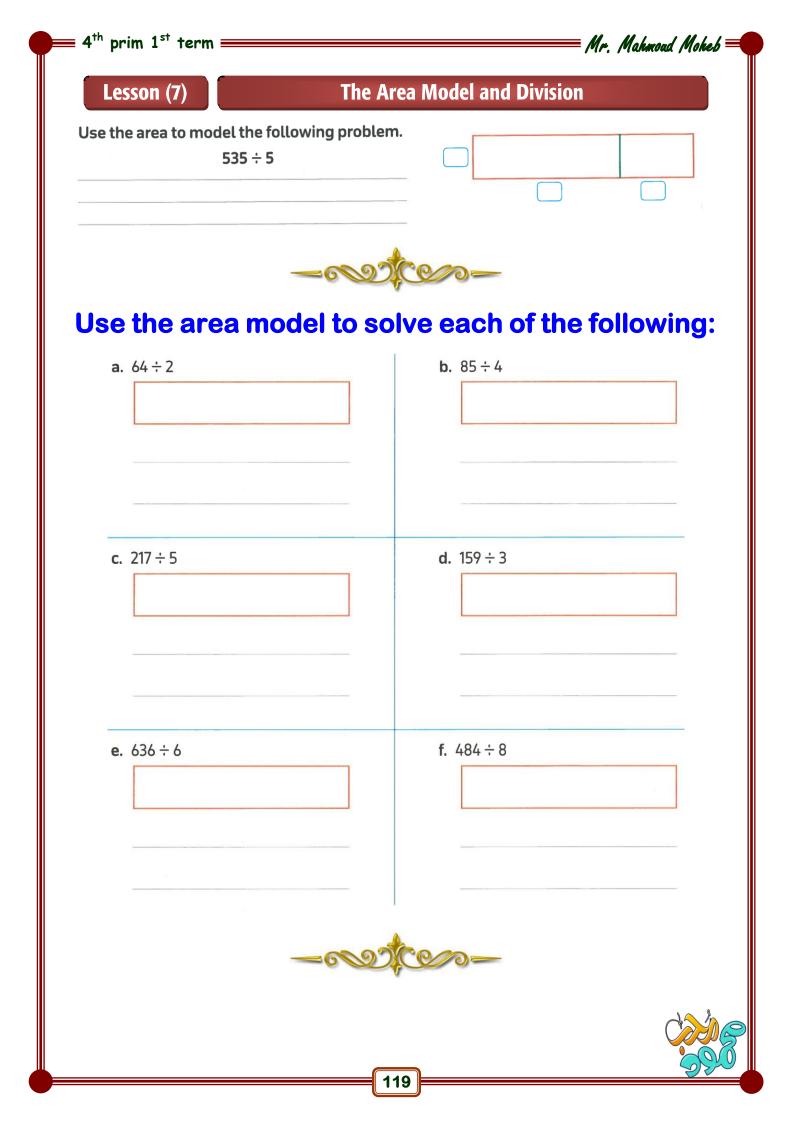
Lesson (6)

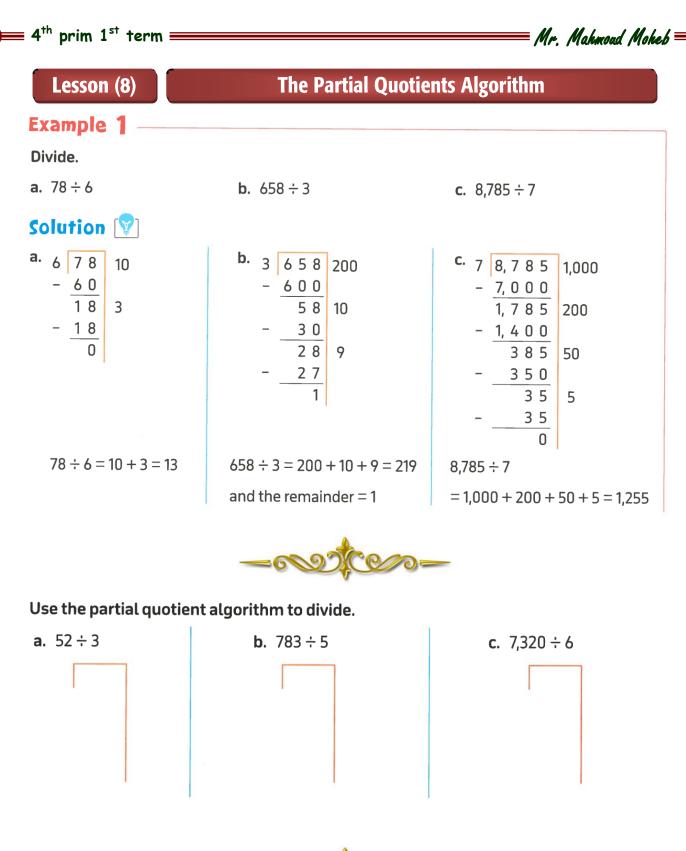
Patterns and Place Value in Division

Equation	Related Fact	Quotient
600 ÷ 3	6 ÷ 3 = 2	200
150 ÷ 5		
1,200 ÷ 6		
200 ÷ 4		
700 ÷ 7		
6,400 ÷ 8		
4,500 ÷ 9		
270 ÷ 3		

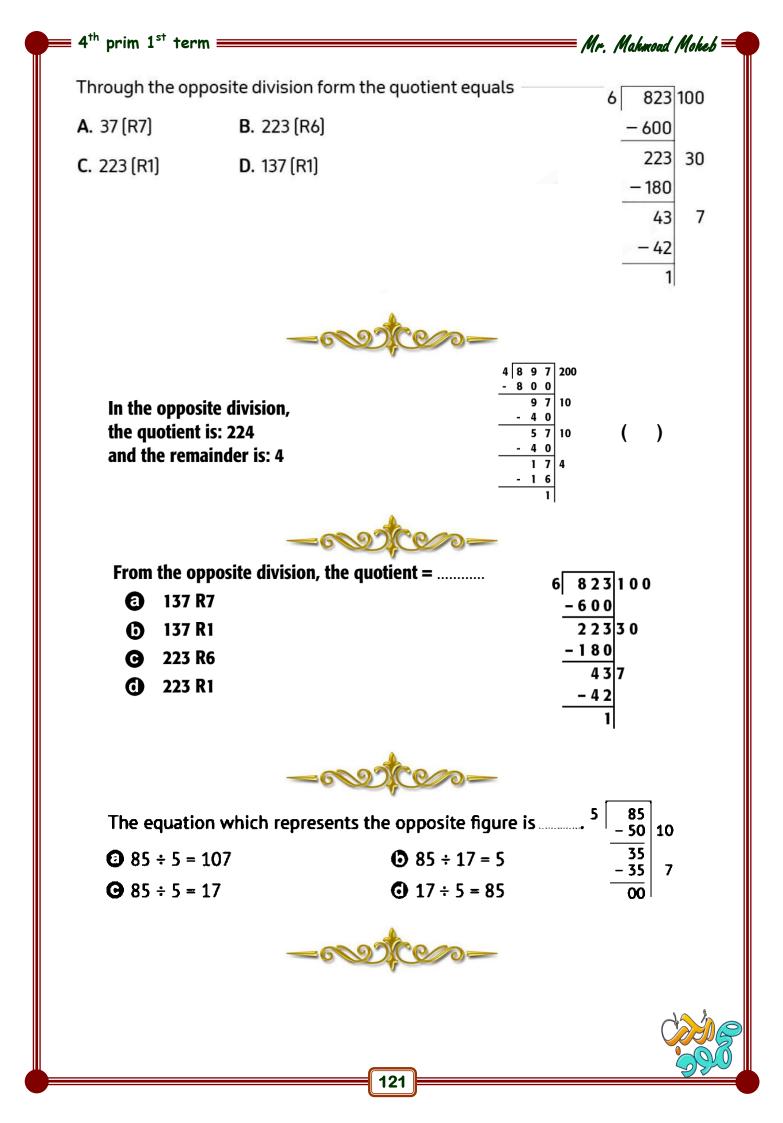


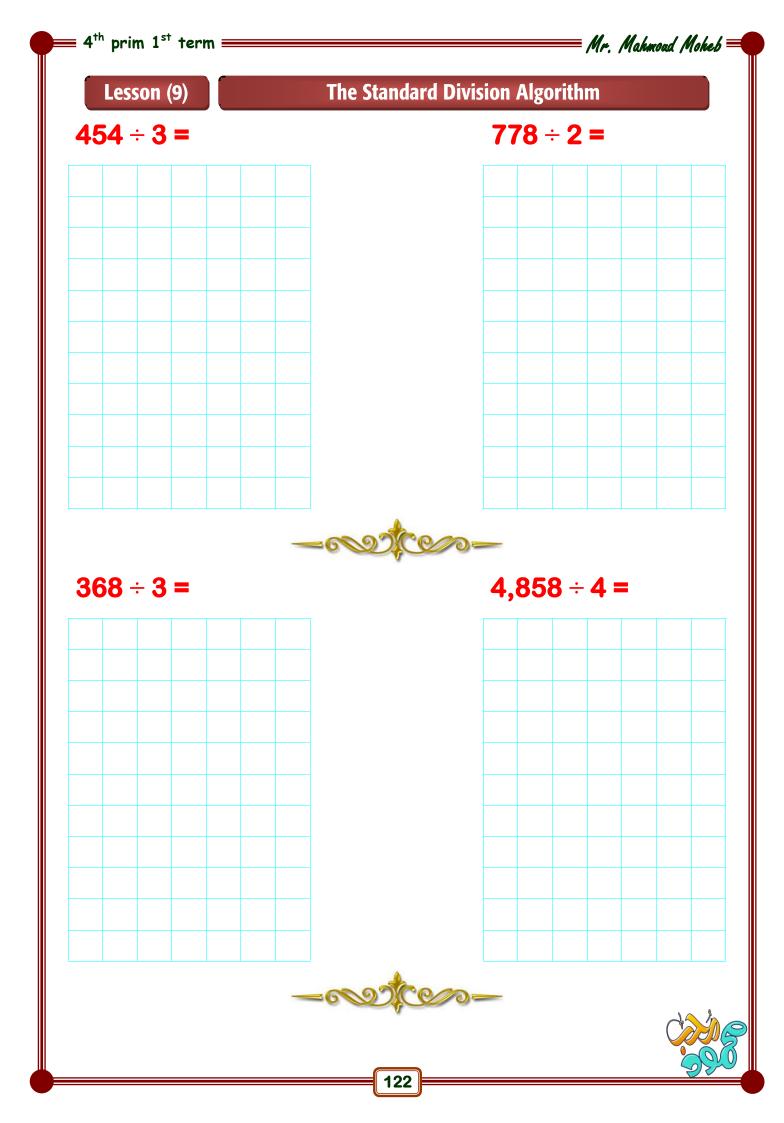
Mr. Mahmoad Moheb 💳

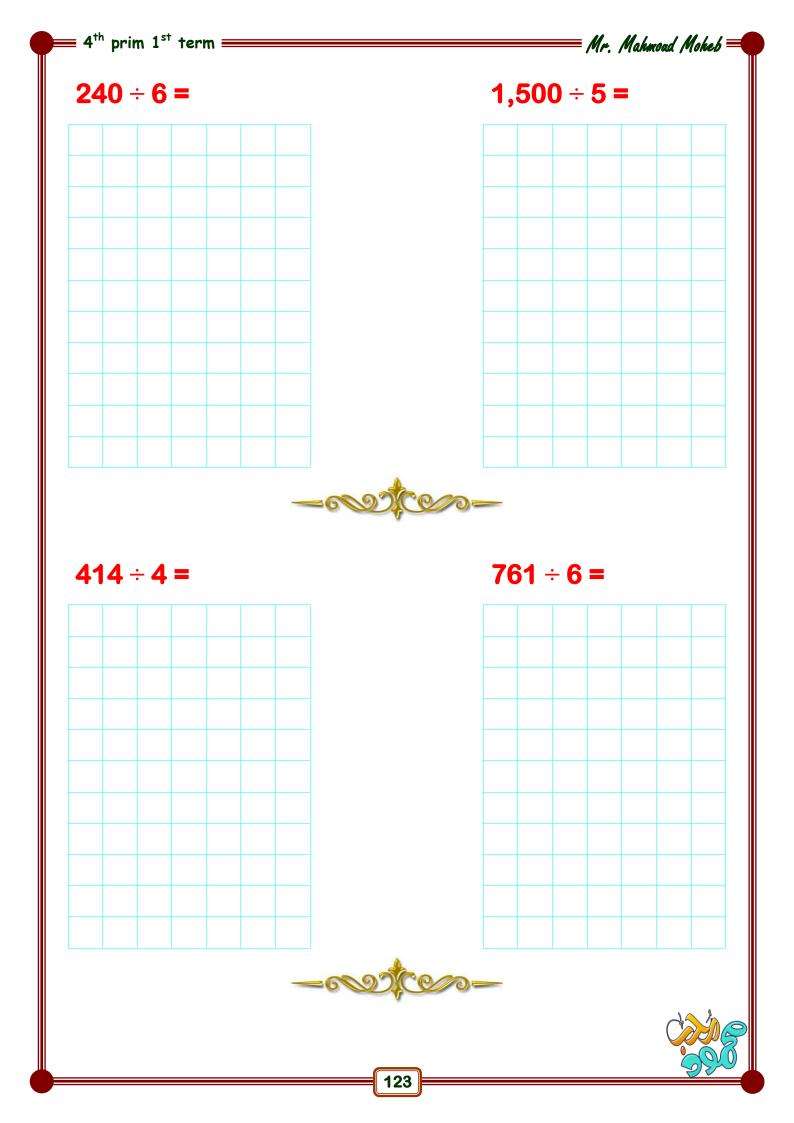




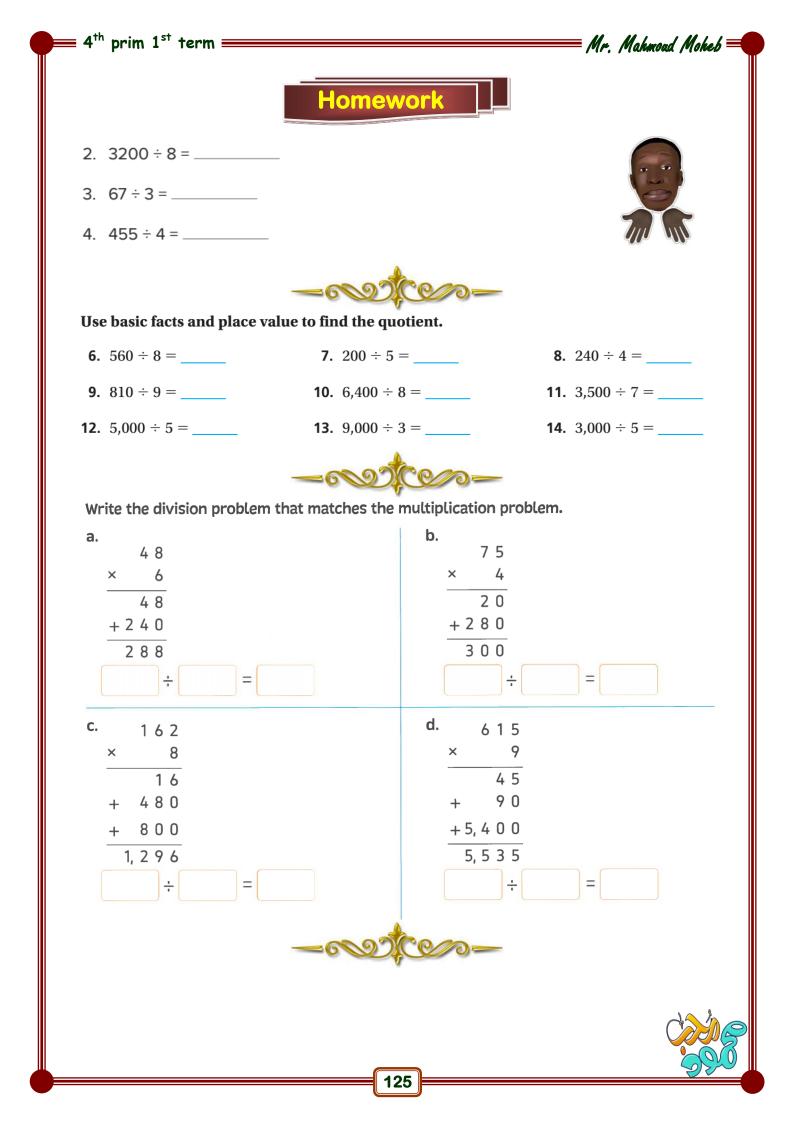


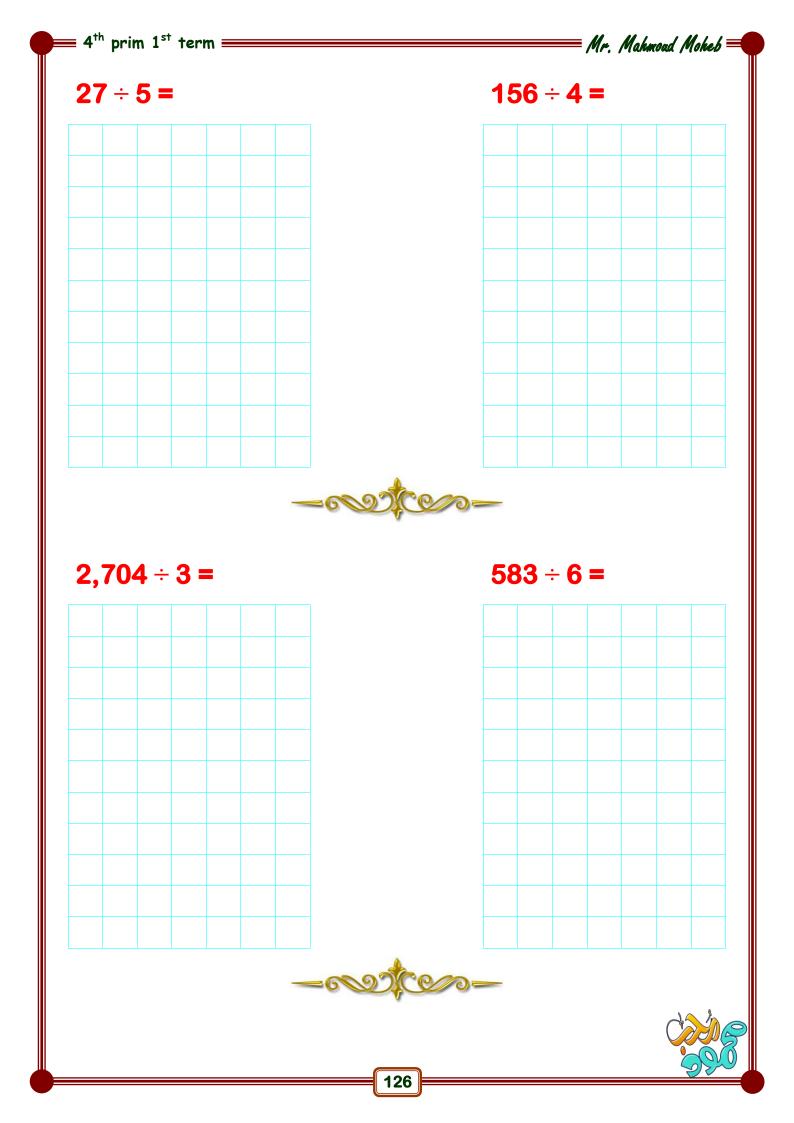


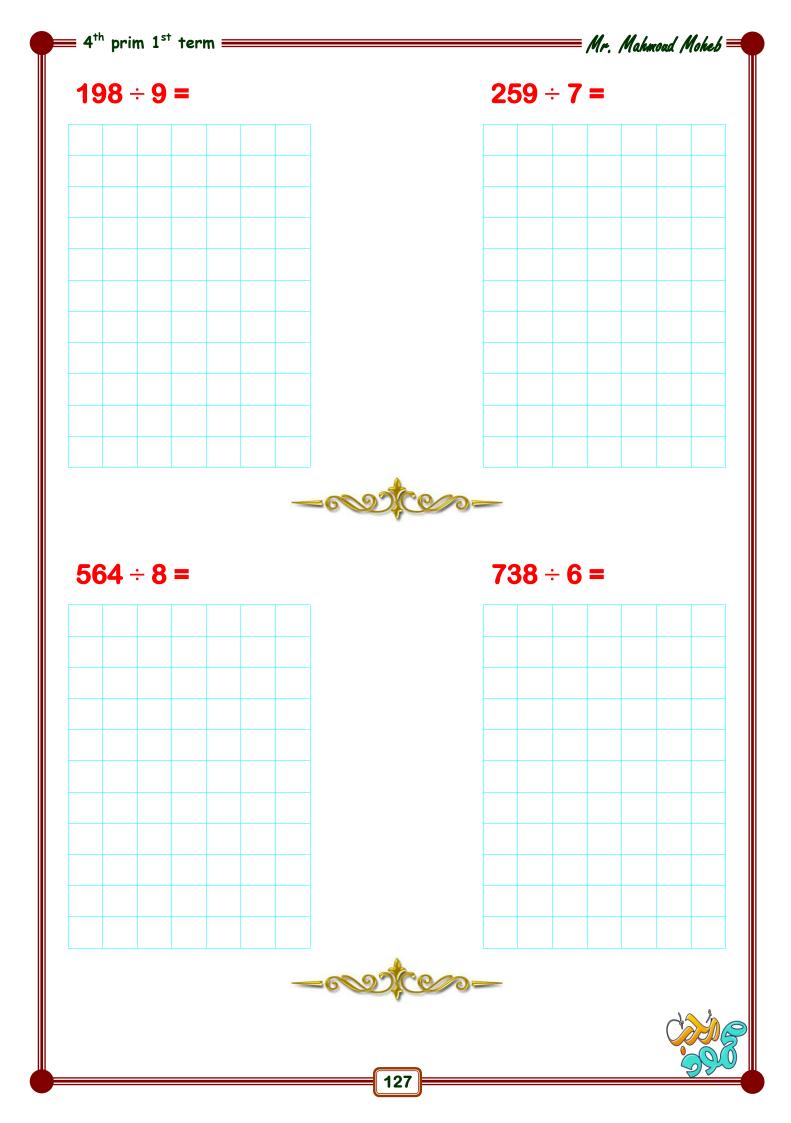


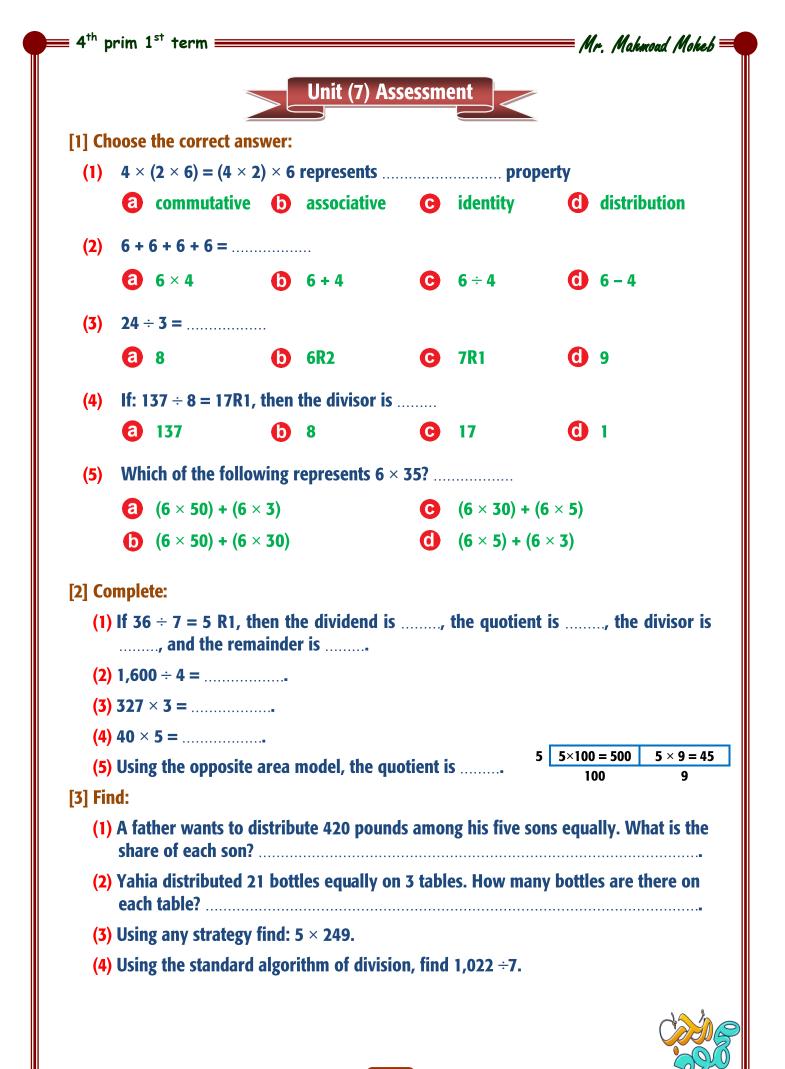


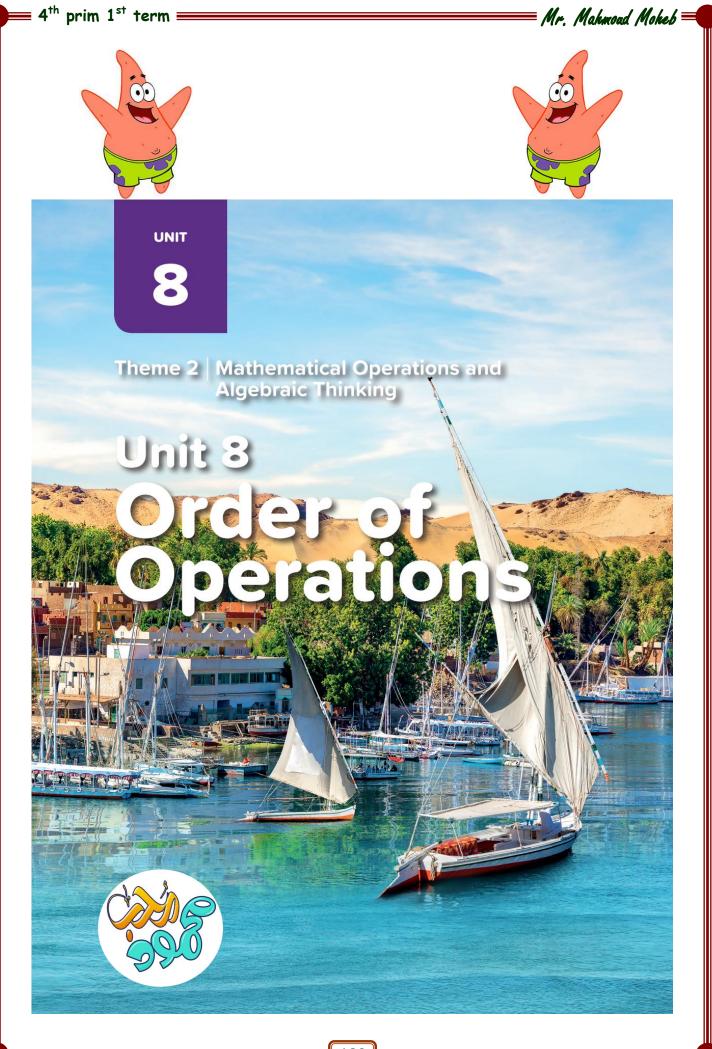
_	esson	(10)			Divisi	ion an	d Mul	tipli	catio	n		
Xa	ample	1										
Vri	te the d	ivisio	n prob	lem that ma	atches the r	nultipli	cation	proble	em.			
) .	34				-	18			с.	90		
~	< 2 8				×	3			× 	5		
-	+ 6 0				+				+		0	
	68				+ 1, 5					6,30 6,35		
0	ution	[7]			1, 5	54				0,00	0	
	98 ÷ 2 =				b. 1,554 ÷	- 3 = 518	3		c. 6,3	56 ÷ ⁻	7 = 908	}
				-	-02)	CC	% =					
Vrit	e the d	ivisio	on pro	blem that i	matches th	ne mult	iplicat	ion p	roble	m.		27
											×	6
		•										42
		•										
		•									+ 1	20
		•				•					+ 1	
		•			-022	ce	<i>?</i>)=	_			+ 1	20
	te the d	ivisio		blem that m	-	multip					+ 1 1	20
			n pro 6		-	Ce	lication 623	n prok x	olem. 3	=	+ 1	20
	te the d	ivisio		blem that m	-	multip				=	+ 1 1	20
a.	te the d	ivisio ×		blem that m = 318	atches the	multip		×			+ 1 1	20
) .	te the d	ivisio ×	6	blem that m = 318	atches the	multip b.	623	×	3]=[+ 1 1	20
a.	te the d	ivisio × ÷ ÷	6	blem that m = 318 = = 1,300	atches the	multip b. d.	623 505	×]÷[;	3]=[=]=[+ 1 1	20
Writ a. c.	te the d	ivisio × ÷ ÷ ÷	6	blem that m = 318 = [atches the	multip b.	623	×]÷[×]÷[3] = [=] = [=] =	+ 1 1	20
a.	te the d	ivisio × ÷ ÷	6	blem that m = 318 = = 1,300	atches the	multip b. d.	623 505	×]÷[;	3]=[=]=[+ 1 1	20
a.	te the d	ivisio × ÷ ÷ ÷	6	blem that m = 318 = [atches the	multip b. d.	623 505	×]÷[×]÷[3] = [=] = [=] =	+ 1 1	20
). 	te the d 53 325 42	ivisio × ÷ ÷ ÷ ÷	6 4 7	blem that m = 318 = [atches the	multip b. d. f.	623 505 93	×]÷[] ;[]	3) = [=] = [] = [] = [+ 1 1	20

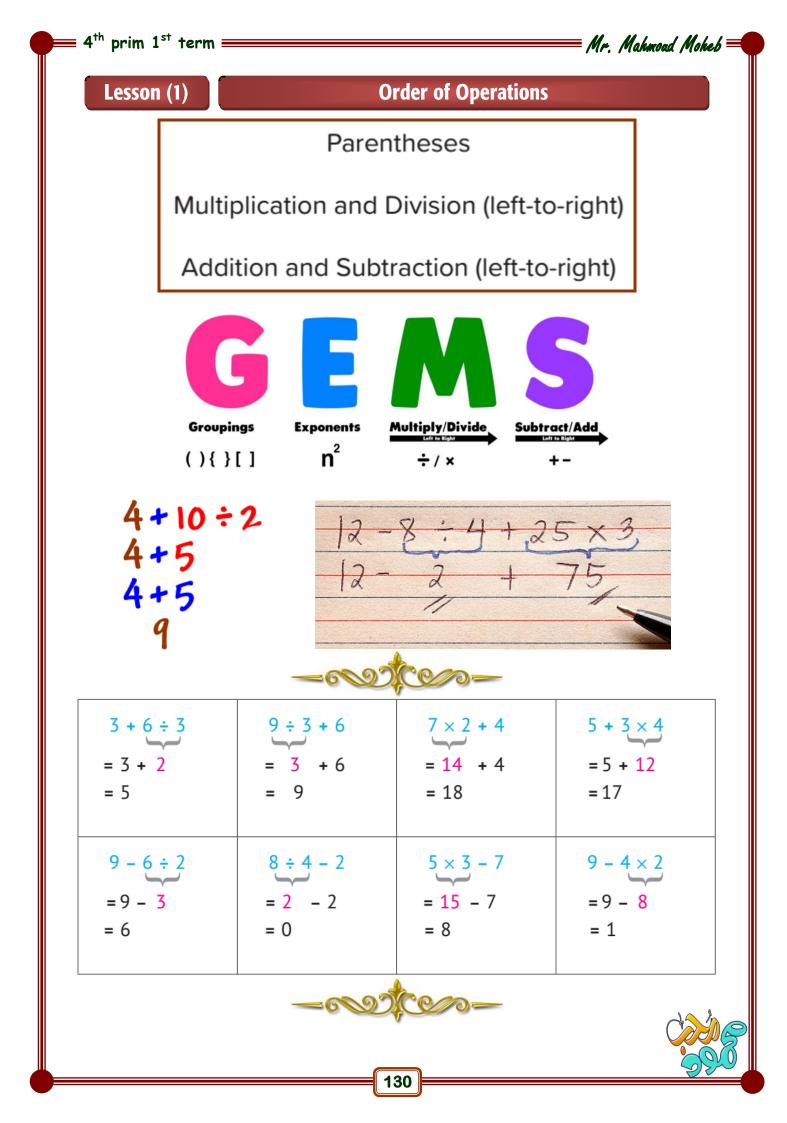














Solve the problems. Show your work.

- 1. 18 x 2 + 8 3 = _____
- 2. 73 60 + 15 ÷ 3 = _____
- 3. 4 + 4 + 5 × 10 = _____
- 4. 80 ÷ 8 7 = _____



= Mr. Mahmoad Moheb =



8 × 5 + 7 =
=
4 × 8 – 5 =
=
7 + 2 × 9 =
=
12 – 3 × 3 =
7 + 8 ÷ 2 =
48 ÷ 8 + 5 =
=
36 ÷ 9 - 3 =
=
12 - 10 ÷ 2 =

= Mr. Mahmoud Moheb 💻

4th prim 1st term ≡

Lesson (2)

The Order of Operations and Story Problems

Ashraf has to take the bus to work. It takes 27 minutes to get to the bus stop near his job. Then, he has to walk for 12 minutes from the bus stop to his place of work. How many minutes does Ashraf spend going to work during a 5-day week?



Mr. Mahmoad Moheb



A group of tourists are taking a tour of Alexandria. There are 172 tourists and 8 tour guides in the group. They want to travel to the pyramids in microbuses. Each microbus fits 9 people. How many microbuses will they need in order to get everyone to the pyramids ?



Bilal buys 6 packages of balloons. Each package contains 18 balloons. He wants to give the balloons to his friends at his birthday party. If he has 8 friends at the party, how many balloons can each friend take home ?.



Sita wants to bake berry muffins. Each muffin will have 6 berries in it. She buys 198 berries from the store. On the way home, she eats 17 of the berries. How many muffins can she make with the berries she has left ?





4 th prim 1 st	term <i>Mr</i> .	Mahmoud Moheb 🔫
	Homework 9 × 4 + 14 = =	
	4 × 8 – 9 = =	
	6 + 3 × 2 = =	
	25 – 3 × 7 =	
	6 + 18 ÷ 3 =	
	63 ÷ 7 + 21 =	
	42 ÷ 7 – 5 =	
	15 - 14 ÷ 7 =	

